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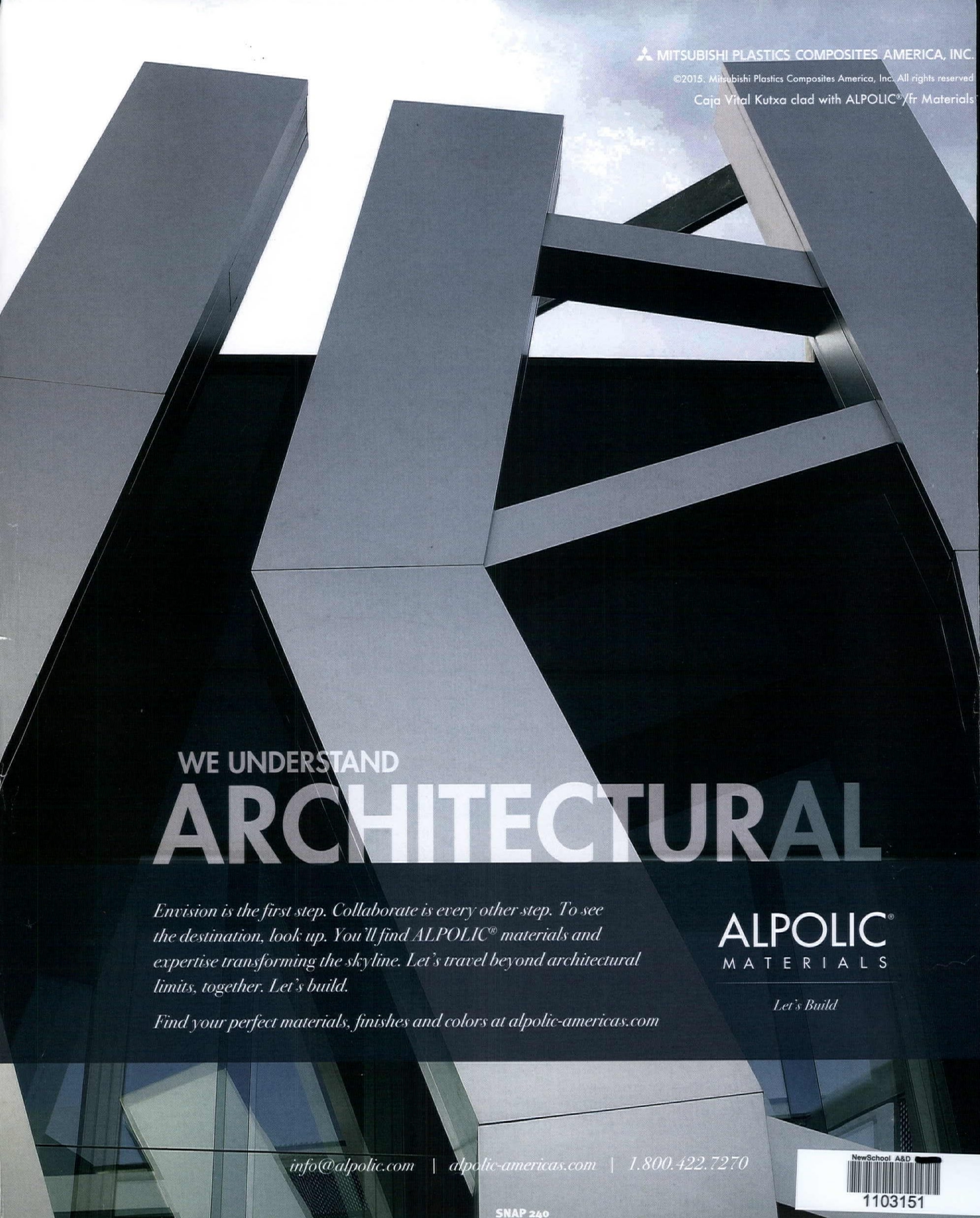
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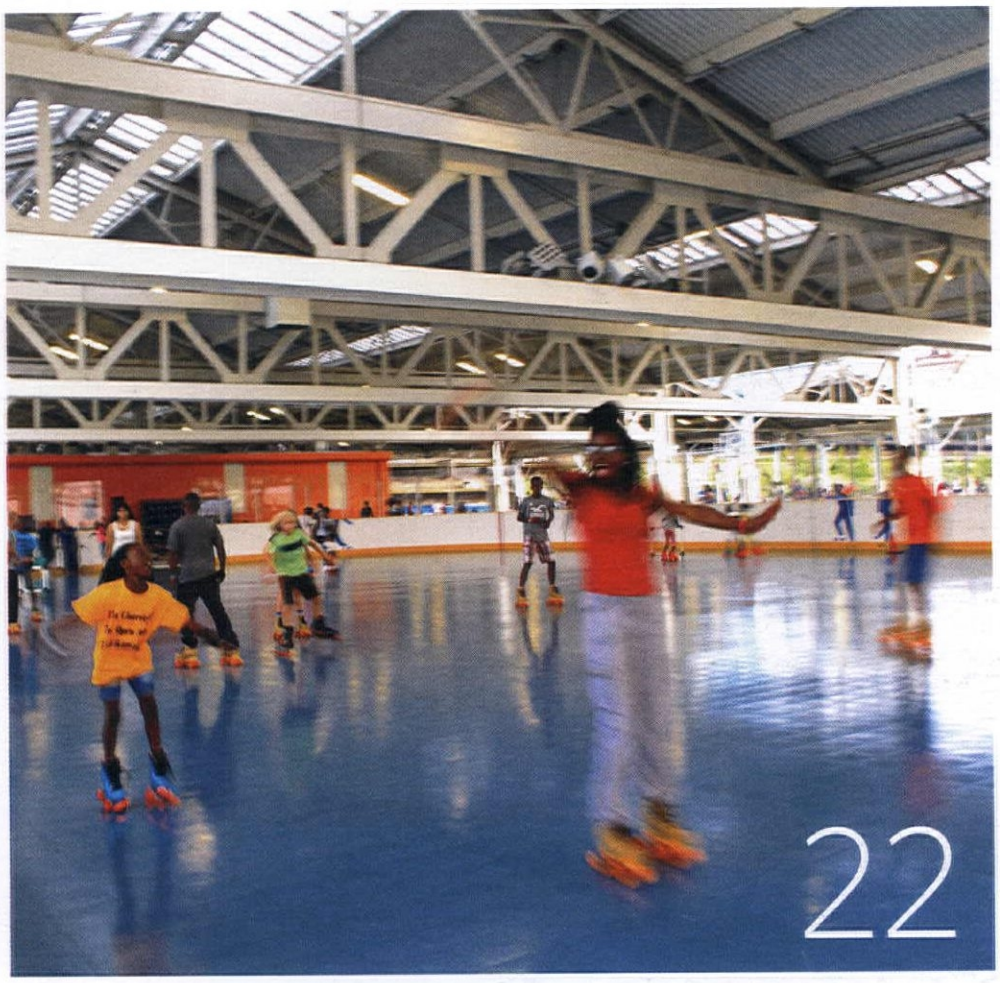


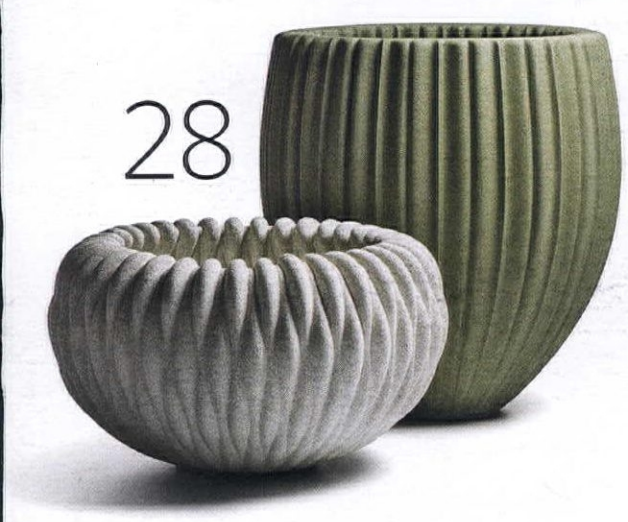
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MAY/JUNE 2015





CLOCKWISE FROM ABOVE
Brooklyn Bridge Park's Pier Two has been converted into a recreation hub with an in-line skating rink. The Element chandelier, from Corbett Lighting, took design cues from molecular structures. Quick Crete Product Corp. has introduced cast-concrete planters by artist Cliff Garten.

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A Warm Welcome



WITH THE RETURN of sunshine, it's just the right moment to go outside or on vacation—or create an environment for either. It's time to ponder, "What materials, products, and other design elements can help make my projects more inviting?"

We're devoting this summer issue to all things hospitality. In **Case Study** (page 18), we look at how **Deborah Berke** approached the dual functions of guest accommodations and art gallery in the 21c Museum Hotel, in Bentonville, Arkansas. For ideas on products that work well in such venues and restaurants and lounges, too, check out our sections **Decorative Lighting** (32), **Flooring** (36), and **Finishes** (38). Also read **Profile** (17), in which **Kap Malik** of L.A.'s **Gensler** shares the items and materials he specified in designing the Shore Hotel in Santa Monica, California.

Hospitality means more than just resorts and bars, though; it's all about welcoming people. **The Great Outdoors** (22), the May/June feature story, explores in brief three underutilized or industrial waterfronts that were creatively adapted, resulting in hospitable sites for public recreation and renewal. And for the perfect complement to this story, see our suggestions in the departments **Site Furniture** (28) and **Landscape Products** (31).

Cheers!

Sheila Kim

SHEILA KIM *Editor*

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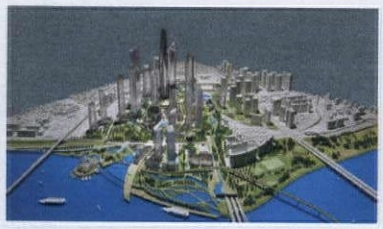
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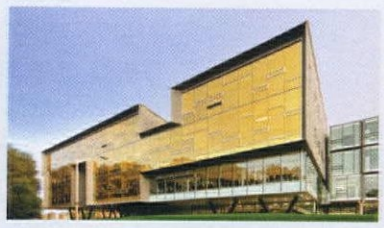
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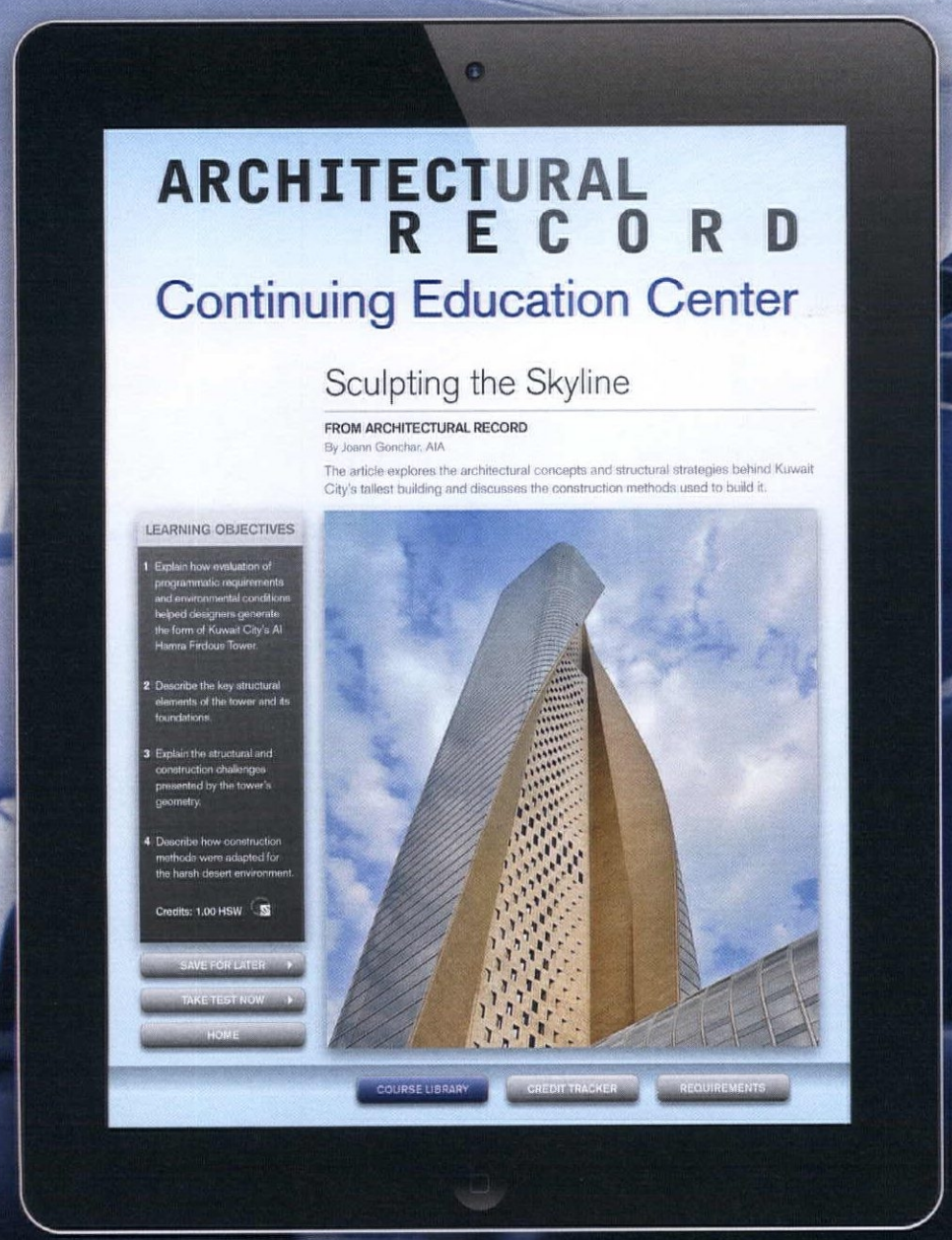
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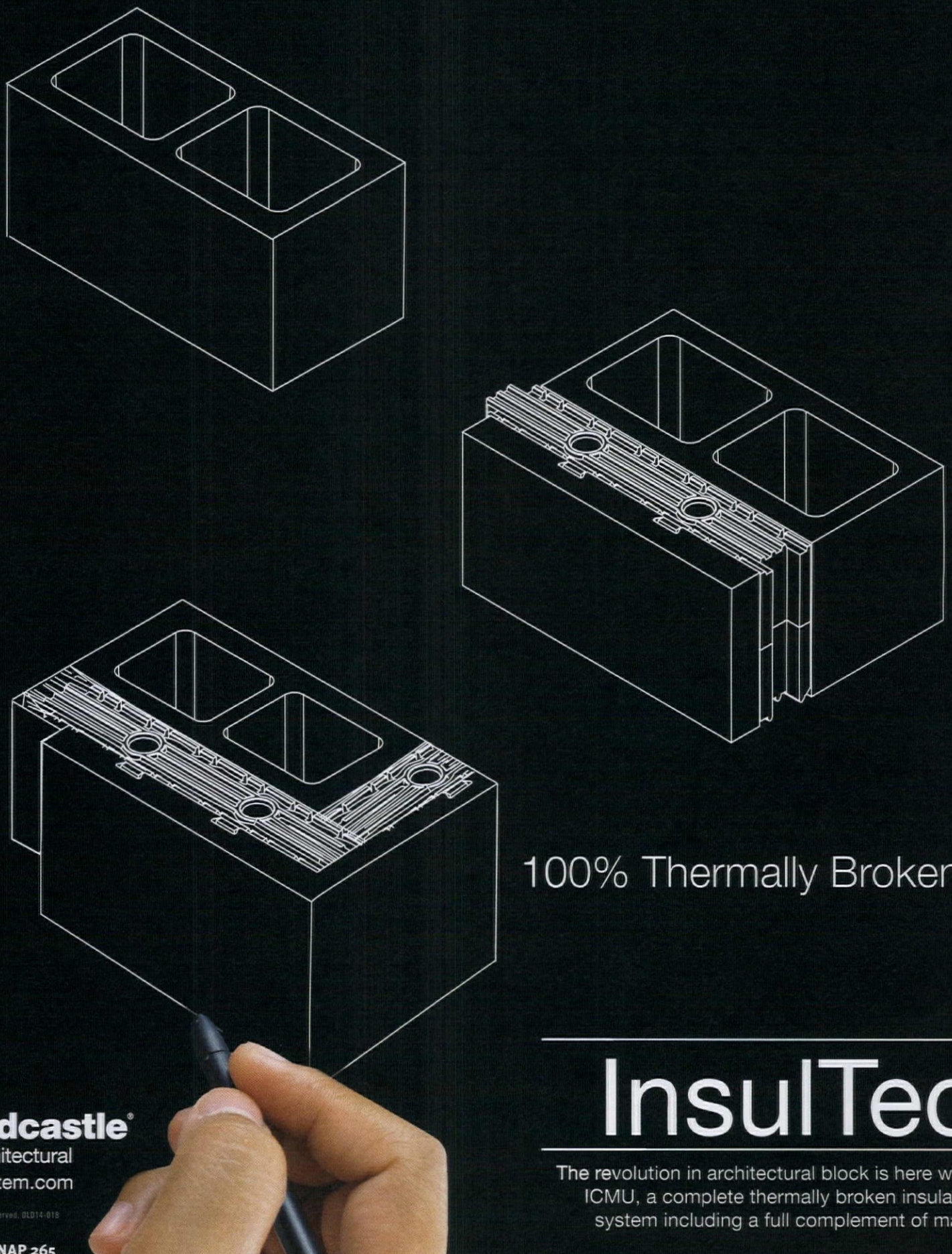
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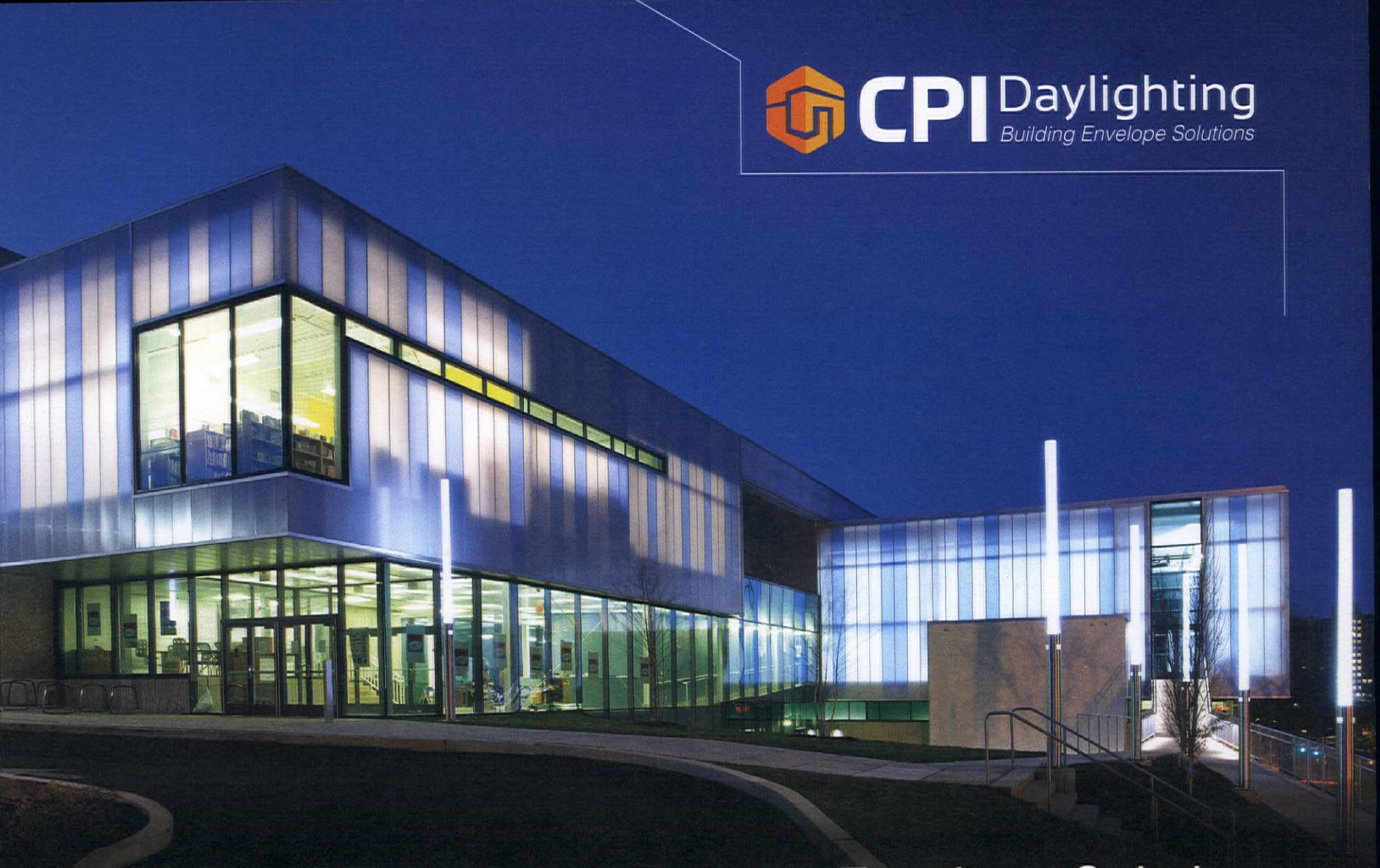
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in brief

"Solar architecture, passive architecture, alone could revolutionize the utilization of energy for homes and buildings."

—RALPH NADER, CONSUMER ADVOCATE, IN AN INTERVIEW FOR PBS'S FRONTLINE

SNAP MATH

1.44 BILLION

The square footage of ceramic tile consumption in the U.S. from January to July 2014, as reported by the Tile Council of North America.

SOURCE: *FLOOR COVERING NEWS*

NEWS BRIEFS

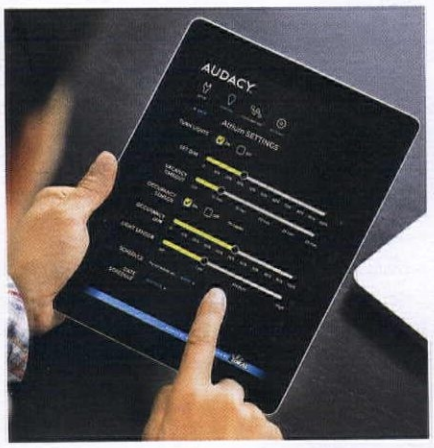
Power Partners

ARMSTRONG CEILINGS AND IDEAL Industries have partnered to create a new wireless lighting-management system that allows for quick reconfiguration of office, industrial, and retail spaces and lowers energy usage by 35 to 40 percent. It pairs Armstrong's FlexZone with Ideal's Audacy.

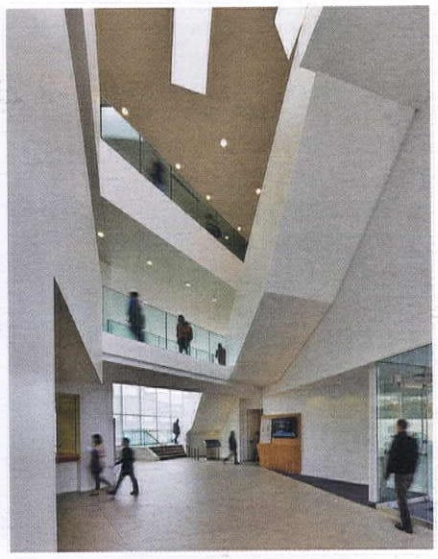
The FlexZone grid is the first ceiling-suspension system to provide infrastructure for delivery of low-voltage DC power. The Audacy system uses a proprietary protocol in the highly reliable 915-megahertz spectrum—which avoids interference with Wi-Fi, Bluetooth, and other technology—and provides better penetration through walls and other obstacles than the higher 2.4-gigahertz spectrum.

Each lighting fixture installed in the grid can be outfitted in fewer than three minutes with an Audacy Smart Connector energy-saving control unit. (The system is compatible with any commercial indoor fixture rated up to 5 amps as well as any 0–10V dimming fixture.) When a space needs rearranging, changes to the lighting controls can be implemented via computer or mobile app. All Audacy sensors and switches are completely wireless and can be placed almost anywhere in the area. And as these devices carry a 25-year battery life, they should be virtually maintenance-free.

According to Armstrong's Joann Davis-Brayman, vice president of global marketing, "There is a growing demand for energy-efficient, flexible commercial lighting- and energy-management systems. Together we can significantly improve the reuse opportunities in interior spaces without needing costly rewiring." —*Allison Craig*





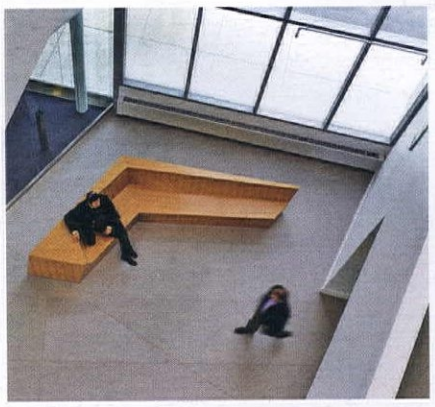


MAIN EVENT

Covering the Competition

COVERINGS, THE ANNUAL TILE AND STONE trade show, may be best known as a showcase for the latest trends and technologies in tile design and manufacturing, but it's also a source of ideas and inspiration. A highlight of this year's April show, which was held in Orlando, was the unveiling of winning projects from the prestigious **Ceramics of Italy Tile Competition**. Now in its 22nd year, the competition celebrates outstanding applications of Italian tile products in North American architecture and design.

In the Residential category, **DKOR Interiors** was recognized for its modernist house in Aventura, Florida, which featured Sunrock Travertino grès porcelain tile from **Atlas Concorde** throughout bathrooms, hallways, and bedrooms, bringing a material unity to the design. Specifying the tile in a variety of sizes and layouts animates the interior while respecting its cohesiveness. Two honorable mentions in the category were awarded as well: **Natalie Kraiem Interiors** received one for its use of **Rex Ceramiche**'s I Bianchi di Rex Calacatta—large-format marble-style porcelain tiles—in a Brooklyn kitchen. In Andersonville, Tennessee, **Tectonic Design** clad a contemporary home in ultrathin Kerlite tiles by **Cotto d'Este**, earning an Exterior Installation Recognition of Excellence from the judges.



The Commercial category winner was the Target Northern Campus, by **RSP Architects**, in Brooklyn Park, Minnesota. The firm used tiles from **Ceramiche Caesar**'s Nera Trapezio and E.motions collection—which simulate wood and stone,

(*continued*)

SUCCESSFUL COVER-UPS Shinberg.Levinas Architects specified Lea Ceramiche tiles for both the exterior (top left) and interior (from above) of the Carlos Rosario International Culinary School in Washington, D.C., winning the Institutional category of the Ceramics of Italy Tile Competition. Audacy, presented by Armstrong Ceilings and Ideal Industries, is a new wireless lighting management system that makes use of low-voltage DC and can be controlled via tablet (left).

in brief

(*Ceramics of Italy continued*)

respectively—to enhance the connection between the architecture and the surrounding landscape. In addition, a 1,000-foot-long circulation path finished in neutral-tone Q-Stone tiles by **Provenza** brings an element of nature indoors.

Alexander Gorlin Architects garnered an honorable mention in this category for its Bell Works project in Holmdel, New Jersey. Its 40,000-square-foot atrium (see page 38) is anchored by a graphic floor installation composed of **ImolaCeramica**'s Micron 2.0 tile and Mirage's Quartziti tile.

The Carlos Rosario International Culinary School, in Washington, D.C., captured the Institutional category. **Shinberg.Levinas Architects** not only wrapped the base of the building's facade with Slimtech tiles by **Lea Ceramiche** but also incorporated them in the interior scheme as well, in the atrium, lobby, cafeteria, and culinary classrooms. In keeping with the client's community-oriented mission, the architects based their choice of tile on its eco-friendly qualities.

The jury also awarded an Exterior Installation Recognition of Excellence honorable mention to **Gertler & Wente Architects**'s ChristChurch Presbyterian project, located in Atlanta. The building is faced with a dynamic mix of **Marazzi** tiles culled from the brand's Monolith and Soho collections.

Competition winners received cash prizes of $4,000 and a five-day trip to this year's Cersaie, in Bologna, Italy. The world's largest exposition devoted to ceramic tile and sanitaryware will run from September 28 to October 2.

International industry experts served on the jury, evaluating submissions in the three categories with an eye to overall quality of tile installation, aesthetic appeal, and functionality, along with the sustainability attributes of the project as a whole and the specific materials used. The Ceramics of Italy Tile Competition is sponsored by the **Confindustria Ceramica**—the Italian Association of Ceramics—and the **Italian Trade Commission**. —*Lisa Caldwell*





BULL'S-EYE The Target Northern Campus in Brooklyn Park, Minnesota, designed by RSP Architects, won the Commercial category in the Ceramics of Italy Tile Competition for its application of Ceramiche Caesar and Provenza products.

Easy-PV

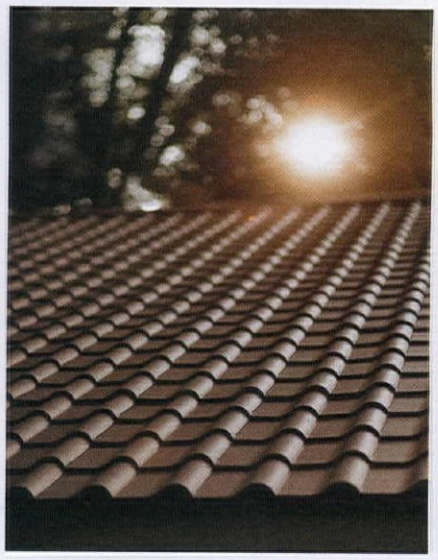
WHAT COULD BE MORE ENTICING to the owner of a commercial or industrial facility than generating up to 80 percent of its energy needs with a customized rooftop photovoltaic array? How about a supplier that also finances that energy-saving PV project?

"We'll lease the roof space, build the array, and sell the power back at discounted utility rates," says Ralph Mannon, president of **Kingspan Energy**. "Though the business owners don't own the array, they get the benefits of the generated energy at a reduced cost."

Jessup, Maryland–based Kingspan is the American arm of the Kingspan Group, an Irish multinational building-products manufacturer. In April, the company announced its entry into the commercial/industrial rooftop PV market in the United States. Initially operating in the Mid-Atlantic and Northeast regions, Kingspan plans to expand nationwide in coming months.

"In the U.S., there's a market for big-box manufacturing facilities and," Mannon points out, "a significant opportunity in the midsize rooftop market." He defines midsize as 50,000 to one million square feet and says the U.S. market doubled in size in 2014.

For each client, Kingspan conducts a feasibility study that looks at rooftop orientation, shading, and radiance; next, it outlines financing options and installs and maintains the PV arrays, which are offered for metal or membrane roofs and new or retrofitted buildings. Clients can include retailers, school districts, low-income housing projects, data centers, and manufacturing and distribution facilities, but really, says Mannon, "it's viable across a number of segments and building types." —*J. Michael Welton*



RAISE THE ROOF Temple Beth El (left) in Stamford, Connecticut, implemented a 210kW Kingspan Energy PV system. Presidio (below) is CertainTeed Roofing's first metal roof offering.

Cutting Overhead

HEEDING THE NOTION that imitation is the sincerest form of flattery, **CertainTeed Roofing** has entered the metal roofing market. Its Presidio line emulates the look of tile, shake, and stone but weighs hundreds of pounds less—and is a fraction of the cost.

"For our first-ever metal roofing collection, we had to hit it out of the park," says Bob Gardiner, vice president of marketing at CertainTeed.

Presidio is manufactured with deep-draw steel for weather resistance, solar reflection, and noise reduction. It can lower the roof temperature with cool-roof technology and an anticorrosive coating. Rated at Class IV for impact resistance, it can be installed to withstand winds up to 130 miles per hour and has achieved a Class A fire rating.

"Metal roofing is spot-on on all counts," says Dale Walton, manager of residential product marketing at RPG Marketing. "The market has continued to grow year by year, and we expect that growth to continue, as a portion of the customer base is selecting metal roofing for environmental reasons."

The Energy Star–qualified line is manufactured with up to 50 percent recycled material, and when removed for renovation or demolition, it's 100 percent recyclable. It also produces clean water runoff to reduce landfill contributions as well as its overall carbon footprint.

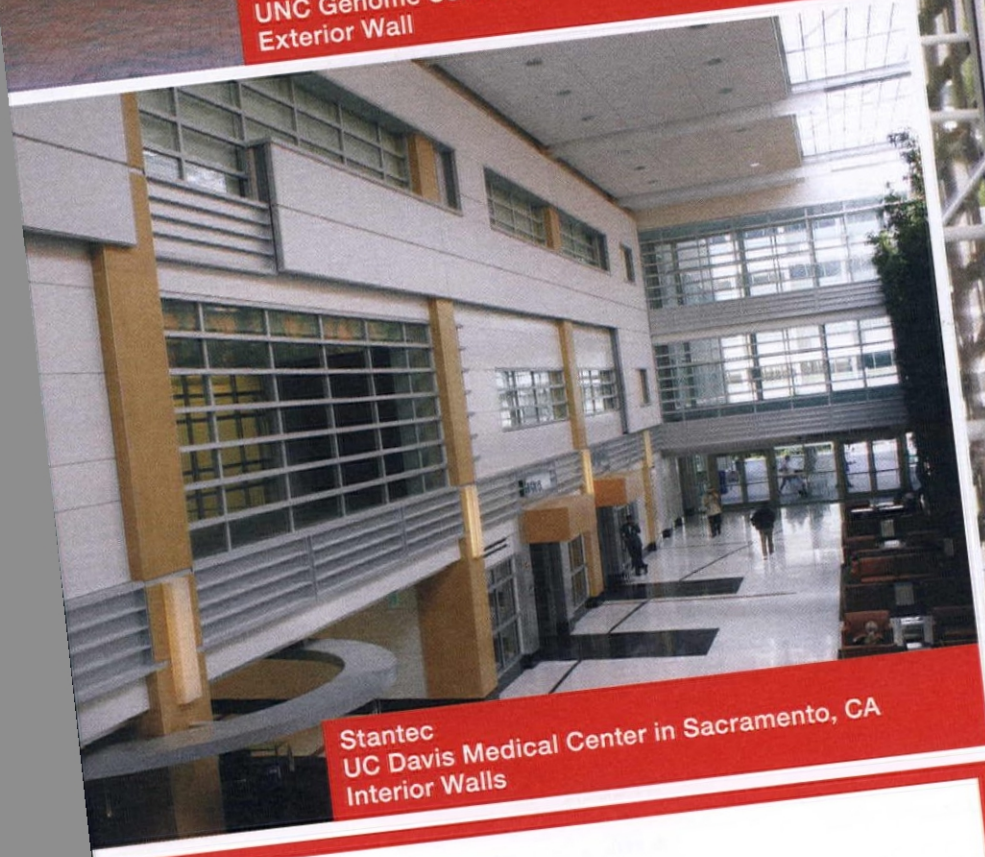
Each roofing panel features overlaps to conceal joints and create a seamless appearance, and an array of colors helps the panels look like the real thing. Says Walton, "We sought the highest-quality, authentic-looking profiles that were easy to install and would last a lifetime."

It may be imitation, but it's down with durability and sustainability. —*JMW*

WHEN THE BEST WANT THE BEST!



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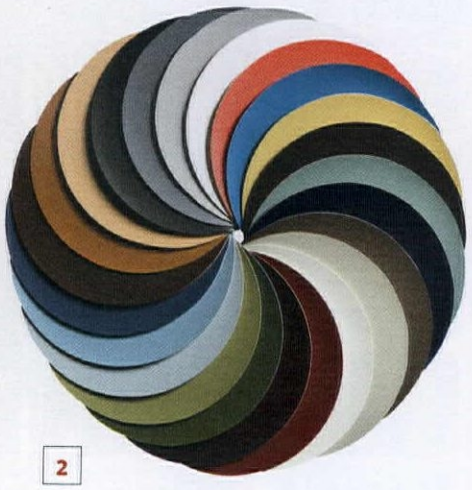
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A spotlight on new commercial and residential offerings

1.
CHROMA WOOD

MANUFACTURER:
Architectural Systems
PERFORMANCE: The planks come in random lengths of 8 to 10 feet in tongue-and-groove, shiplap, and other formats.
PRICE RANGE: $$
APPLICATIONS: The colored and artisan-charred cypress, yellow pine, and redwood panels are suitable for interior or exterior walls.
ARCHSYSTEMS.COM
(SNAP #01)

2.
REVYL

MANUFACTURER:
Crypton Fabrics
PERFORMANCE: This vinyl withstands cracking, repels stains, stands up to strong cleaning solutions, and resists bacterial and fungal growth.
PRICE RANGE: $$
APPLICATIONS: Ideal for upholstery in health-care, institutional, and other high-traffic environments.
CRYPTON.COM
(SNAP #02)

3.
MAKE

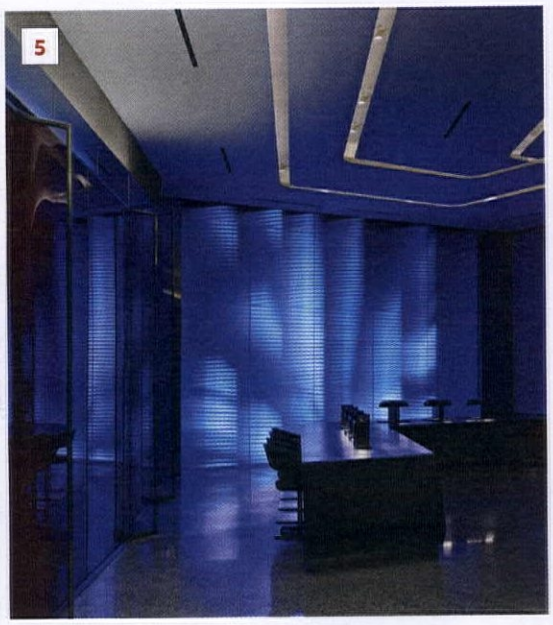
MANUFACTURER:
Skyline Design
PERFORMANCE: The glass series features four base designs—Hexagons, Letters, Threads, and Triangles—which can be customized to adjust density, stroke, and scale.
PRICE RANGE: $$
APPLICATIONS: Interior walls, doors, and privacy panels in residential or contract projects.
SKYDESIGN.COM
(SNAP #03)

4.
STELLA

MANUFACTURER:
ModularArts
PERFORMANCE: This InterlockingRock panel, consisting of glass fiber–reinforced gypsum on a lightweight plant-based foam core, weighs 1½ pounds per square foot.
PRICE RANGE: $$
APPLICATIONS: The interior wall panels are paintable to match a variety of interiors.
MODULARARTS.COM
(SNAP #04)

KEY $=VALUE, $$=MID-RANGE, $$$=HIGH-END

= ECO-FRIENDLY ATTRIBUTES









5.
MEDIAGLAS

MANUFACTURER: Traxon
PERFORMANCE: The manufacturer partnered with Galaxy Glass & Stone to create this customizable line of LED-backlit architectural glass; users can program color, graphics, and text via e:cue technology.
PRICE RANGE: N/A
APPLICATIONS: Dynamic walls and signage.
TRAXONTECHNOLOGIES.COM
(SNAP #05)

6.
SYSTEM 1224

MANUFACTURER: B+N Industries
PERFORMANCE: The 12-by-24-inch panels for interior walls—offered in materials from steel to veneer—can be pinned, clipped, or hooked to vertical brackets.
PRICE RANGE: $$$
APPLICATIONS: Ideal for retail and hospitality, the system can be backlit and customized with logos and graphics.
BNIND.COM
(SNAP #06)

7.
BINIC IN NEW COLORS

MANUFACTURER: Foscarini
PERFORMANCE: Six fresh hues replace the original palette of this popular table light. The playful compact-fluorescent lamp measures 5½ inches across by 8 inches high.
PRICE RANGE: $$$
APPLICATIONS: Best suited to residential and hospitality, the units are constructed of ABS and polycarbonate.
FOSCARINI.COM
(SNAP #07)

8.
STC ICU SWING

MANUFACTURER: Horton Automatics
PERFORMANCE: This glass swing-door system achieves a STC rating of 35.
PRICE RANGE: $$
APPLICATIONS: Well suited to health-care facilities where noise control is key, the door can be specified as a single, double, or uneven-double system.
HORTONDOORS.COM
(SNAP #08)

Imagine specifying products that can cut energy costs by 96%* Now you can with Miele's H_2O Dryer

Miele has taken energy savings in the laundry room to a new level with the revolutionary H_2O dryer. By incorporating a specially designed heat exchanger in a closed loop hot water system, Miele delivers unsurpassed energy savings in the drying step of the laundry process.

Skeptical? Don't just take our word for it; Burris Construction chose the H_2O dryer to achieve their goal of net zero energy consumption. Scan the QR code to watch their story or email us for a direct video link and spec sheet.



*96% reduction depends on heat source

**Miele's H_2O dryers are offered in 36 lbs. and 70 lbs. models

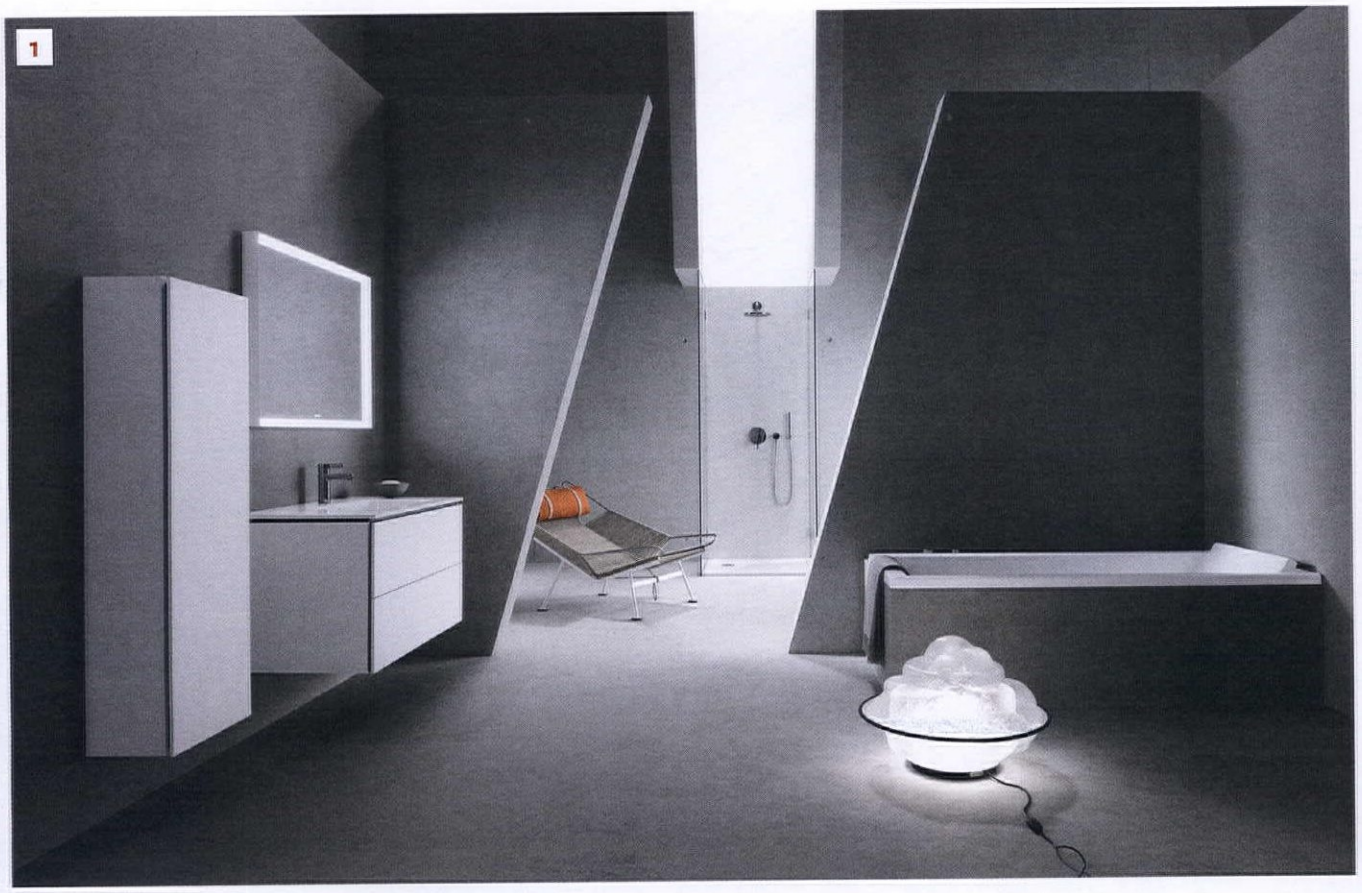
☎ 800.991.9380 • ✉ proinfo@mieleusa.com • miele-pro.com SNAP 266

Miele
PROFESSIONAL

Bathing Beauties

Designer Philippe Starck and Duravit reteam to present two new bathroom collections.

BY JOSEPHINE MINUTILLO









IT HAS BEEN over a quarter of a century since Philippe Starck designed his first fixture for Duravit. In that time, the French star also delivered the five-story Duravit Design Center—complete with a giant toilet-bowl structure that serves as an observation deck—in Hornberg, Germany, where the company was founded nearly 200 years ago.

It was in that bold building, deep in the fabled Black Forest, that Duravit presented its latest collaborations with Starck, during its biennial Design Days event in early February. The two new collections, Cape Cod and ME by Starck, are now available.

Inspired by sandy beaches and untamed nature, the gently curved sinks and tubs of the Cape Cod series utilize a proprietary ceramic material that allows for especially thin yet impact-resistant basins. The sink consoles are offered with chrome frames and either high-gloss white or wood storage; the Vintage Oak version is one of a kind, with irregular edges reminiscent of driftwood. For a uniform and harmonious look, Cape Cod can be combined with selected toilets and bidets from the earlier Starck 1 and Starck 2 lines as well as with the other new-for-2015 series, ME by Starck.

The minimalist ME by Starck toilets, bathtubs, shower trays, and sinks also feature a delicate edge for an almost rimless appearance. (ME is the first Duravit range in which the urinal—designed for use in private and public bathrooms—boasts the innovative rimless technology.) All the washbasins in this line can be coated with the company's WonderGliss for ease of cleaning.

ME coordinates perfectly with the L-Cube bathroom furniture collection designed by Christian Werner, also introduced at the 2015 edition of Design Days. **(SNAP #09)**

1. The ME by Starck collection of ceramic fixtures (top left and right) complement the L-Cube bathroom furniture range (also shown), designed by Christian Werner.
2. Designer Philippe Starck (center).
3. The Cape Cod sink console (right) is available in Vintage Oak, American Walnut, European Oak, White Beech, and high-gloss white.



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SNAP 291

AGC

BEYOND GLASS™

Kap Malik: Inviting Design

Design Director and Principal, Gensler, Los Angeles

A KEY FEATURE OF YOUR SHORE HOTEL PROJECT IN SANTA MONICA IS THE STEEL-TRUSSED ROOF. WHAT INSPIRED THAT?



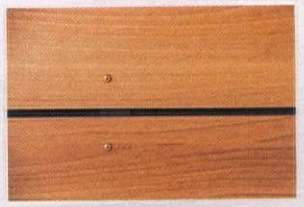
The goal was to create an outdoor living room. The trellis casts compelling shadows whose pattern changes on the facade over time. And it unifies the two sides of the building on Ocean Avenue, giving a holistic feel.

TELL US ABOUT THE PROPERTY'S INTERIORS.

The entire interior design contrasts the natural environment with the built urban environment. Stainless-steel ceiling panels continue the exterior cladding on the inside. Custom tile and white-specked Caesarstone echo urban grids and sandy beaches. Teak furnishings tie the design with the oceanfront.

WHAT OTHER PRODUCTS DID YOU SPECIFY HERE?

There are sleek Kohler shower pans with teak drain covers, point-supported glazing using Dorma USA fittings, additional glazing by Viracon, Arcadia guestroom doors and windows, steel panels by Contrarian Metal Resources, and synthetic wood panels from Trespa (right).



WAS ANYTHING CHALLENGING IN WORKING ON THE SHORE HOTEL?

The hotel was divided into two parcels separated by a public alley. A new sky-bridge now connects the sites—on levels two to six—while allowing ocean views from every guestroom.

WHAT HOSPITALITY PROJECT DID YOU RECENTLY COMPLETE?

The Westin Denver International Airport, which is working in harmony with a Transit Center and existing airport. The project integrated functions and operations vertically as well as horizontally; it also respects the existing terminal and looks to the future at the same time.

In his 20-plus years with Gensler, design director and principal **KAP MALIK** *has led teams on some of the firm's most recognized projects, such as the five-star Hyatt Incheon—South Korea's first to achieve LEED Gold—and, at L.A. Live, the Ritz-Carlton Hotel & Residences and the JW Marriott Los Angeles. He holds a bachelor of science in architecture from the University of Texas at Arlington.*

30+

The number of years Gensler's Los Angeles office has practiced hospitality design worldwide.

The architect sits in the lobby of his award-winning Shore Hotel in Santa Monica, California. The space's beachy hues come from whitewood marble (floors), hand-carved quartz and sandstone (reception wall), and Indian limestone (walls). The 90,000-square-foot project has earned LEED Gold certification.

PHOTOGRAPHY (CLOCKWISE FROM LEFT): © JOE SCHMELZER; RYAN GOBUTY/GENSLER; COURTESY TRESPA

BY DAVID SOKOL

21C MUSEUM HOTEL, BENTONVILLE, ARKANSAS

The Art of Urbanism

PROBLEM: *Weave a hotel and gallery into the fabric of a small city.*
SOLUTION: *Separate the lobby and public art programs from lodging and compose them as an array of street-front volumes.*

IN LAUNCHING its brand of art-hotel properties, 21c Museum Hotels tapped Deborah Berke Partners to convert historic buildings in Louisville and Cincinnati to incorporate public art galleries. For 21c's first ground-up construction, the client gave the New York–based architect a blank canvas: a former parking lot in central Bentonville, Arkansas.

Whereas Berke placed contemporary art and design in dialogue with vintage architecture for the initial boutique properties, this new project brought the surrounding context into the conversation. "We called our initial design strategy 'toys in the yard,' meaning we would design distinct yet related volumes to animate the site," she says. "These house the public programs of the hotel and form the Main Street facade."

Bentonville's town-square environment is largely human in scale. Berke's scheme offered the added benefit of consolidating the hotel's 104 guestrooms into a slim four-story bar pulled away from Main Street. Today the street-front volumes vary between single and double height, sport sawtooth and rectilinear shapes, and are unified by Endicott Clay's charcoal-colored modular-brick cladding and swaths of glass.

The project's fenestration boasts its own diversity which, says Berke, treats "natural light as a design element that could establish a unique character for each interior space." The sawtooth wall of the main gallery creates visual interest on Main Street, for example, and its floor-to-ceiling windows cast Serkan Özkaya's site-specific commission *A Sudden Gust of Wind in Bentonville* in shadow and light. In the building's southwest corner, clerestories bathe the lobby's de Sede sofa, Simplemente Madera–fabricated front desk, and wall-hung artworks in welcoming, diffuse illumination.

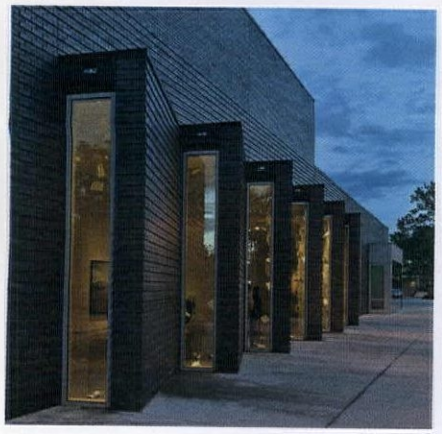


ARCHITECT
Deborah Berke Partners
TYPE
Hospitality
PRODUCT
Linear Wood Ceiling
MANUFACTURER
Rulon
PERFORMANCE
Wood-slat panels employing Rulon's clip-rail installation system are available with Class A or Class 1 fire treatment.
APPLICATIONS
Standard and custom stains and colors complement a range of project types.
PRICE RANGE $$
RULONCO.COM
(SNAP #10)

SEE AND BE SEEN
In the hotel's art-filled lobby, a custom wood-slat ceiling and clerestory windows help control noise and light while a sinuous de Sede sofa offers a comfy perch.

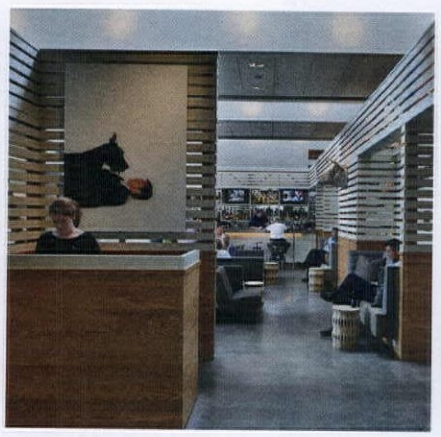
IN THIS PROJECT

KEY $ = VALUE, $$ = MID-RANGE, $$$ = HIGH-END



DARK IRONSPOT VELOUR MODULAR BRICK

MANUFACTURER: Endicott Clay
PERFORMANCE: Offered in both face- and thin-brick formats, the cladding units are modular, with the thin brick featuring rear dovetail slots for mortar locking. Velour and smooth finishes are available.
PRICE RANGE: $$$
APPLICATIONS: Well suited to commercial and residential applications alike.
ENDICOTT.COM
(SNAP #11)



TECTUM CEILING PANELS

MANUFACTURER: Tectum
PERFORMANCE: These beveled 1½-inch-thick acoustic panels composed of wood fiber, available in 2-foot-square and 2-by-4-foot formats, offer a noise reduction coefficient up to 1.00.
PRICE RANGE: $$
APPLICATIONS: Suitable for commercial and institutional interiors, the panels can be laid into a grid, directly mounted, or affixed to a drywall grid.
TECTUM.COM
(SNAP #12)



KAWNEER 1600 SYSTEM

MANUFACTURER: Kawneer
PERFORMANCE: Multiple Kawneer systems were specified for 21c in Bentonville. The products, which include recyclable aluminum, offer excellent thermal performance for sensitive environments like art galleries. The 1600 system (shown in ground floor) has a U-factor of 0.48.
PRICE RANGE: $$
APPLICATIONS: Ideal for low- to mid-rise buildings.
KAWNEER.COM
(SNAP #13)



CUSTOM CARPET

MANUFACTURER: B Carpet
PERFORMANCE: Deborah Berke Partners designed the custom loop-pile floor covering; constructed of solution-dyed nylon in the Mirage colorway, it weighs 32 ounces per square yard.
PRICE RANGE: $$
APPLICATIONS: Suitable for hospitality guestrooms.
BCARPET.COM
(SNAP #14)

PHOTOGRAPHY: TIMOTHY HURSLEY (TOP, BOTTOM LEFT THREE); RETT PEEK (BOTTOM RIGHT); MAGNUS LINDQVIST (OPPOSITE)



A LIGHT TOUCH
Deborah Berke Partners treated the guestrooms sparingly, allowing accents—such as a duotone pendant by Hallmark Lighting—to signal each interior's zone of use.

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The Great Outdoors

Three formerly inhospitable waterfront sites take on new life as urban oases. BY SHEILA KIM

PUBLIC OUTDOOR SPACES BENEFIT communities in manifold ways, offering diversion, broadening opportunities for social and physical interaction, and stimulating the senses as well as the local economy. In short, they promote well-being.

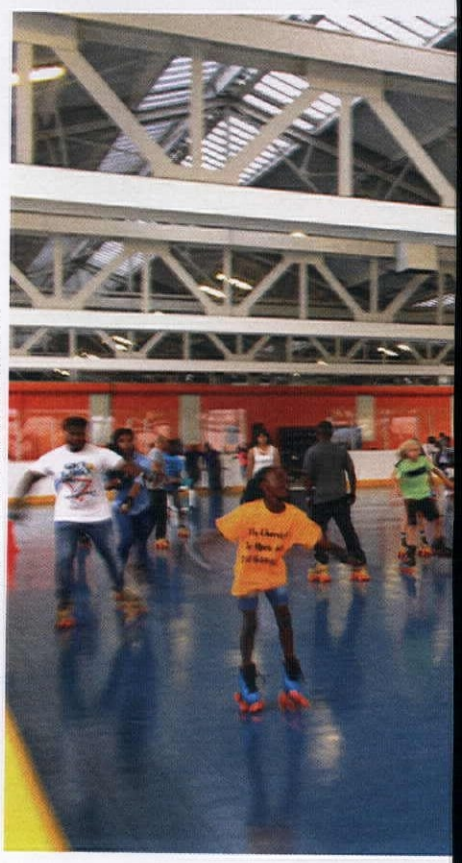
"When we shut out the busyness of our day and reflect on the nature around us," says David Oakey, "it's like meditation, and we feel good." A board member of the Biomimicry Institute, the founder of David Oakey Designs has been championing biophilia by incorporating its principles in products he created for flooring giant Interface and by writing and speaking on the subject (before it became more mainstream). He points out that for urban dwellers to connect with nature, greenery isn't always the bottom line: "It might be the blue sky overhead, the sound of waves, or the sun's warmth on your skin."

RECREATION STATION

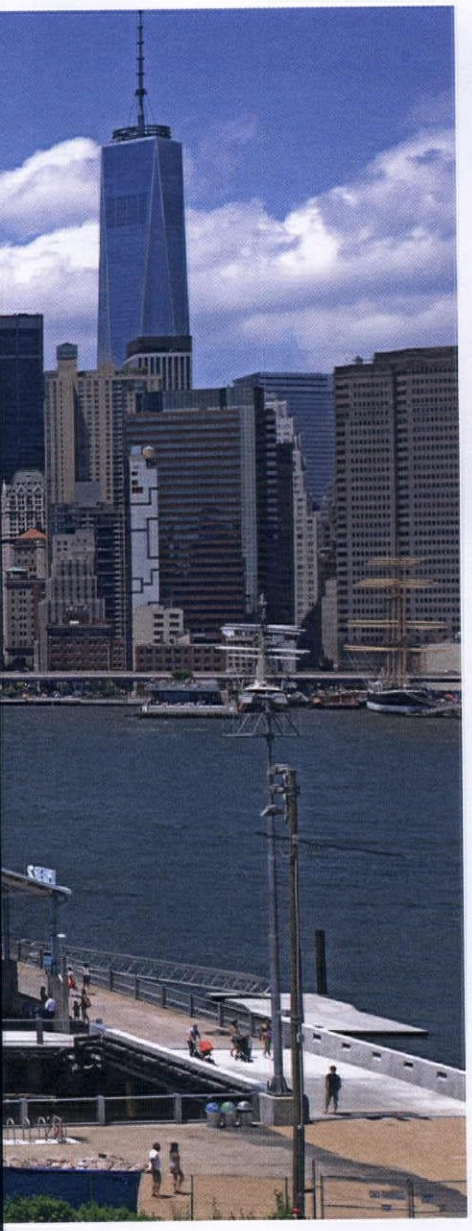
Brooklyn Bridge Park's Pier Two, a former industrial site that's been converted into a massive urban playground, delivers on all of the above. In planning the New York City project, **Maryann Thompson**, whose namesake firm designed the pier in conjunction with **Easton Architects** and **Michael Van Valkenburgh Associates**, envisioned a beautiful "toy box of sports."

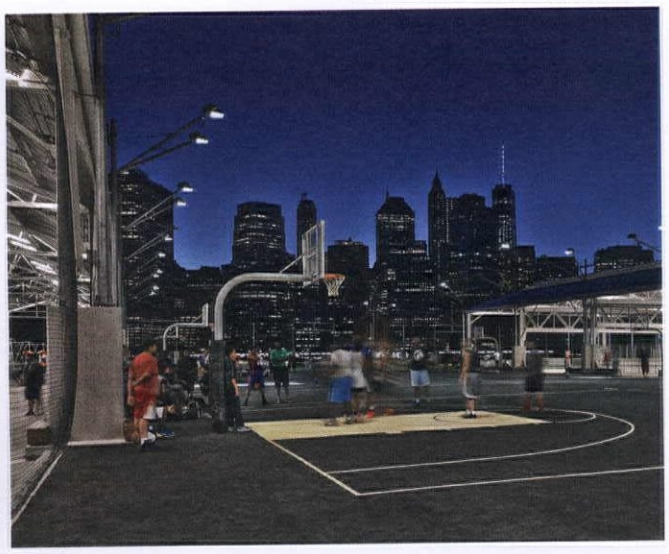
The team kept the existing 174,000-square-foot warehouse structure, reinforcing it with new **PPG**-painted trusses and replacing roofs with corrugated metal from **Flexospan**. **Extech Exterior Technologies**' skylights, which utilize **Gallina USA** polycarbonate, run down the ridges to provide natural light in the covered areas, though supplemental fixtures from **All Lighting** and **Cooper Lighting** can also be switched on.

For the area's many basketball and handball enthusiasts, courts were fashioned from original patches of concrete. Elsewhere, tiles by **Mitchell Rubber Products** soften landings under swing sets, turf pads an open-play field, and an interlocking sheet floor forms an



PHOTOGRAPHY (FROM TOP): JEFFREY KILMER; MICHAEL VAN VALKENBURGH ASSOCIATES

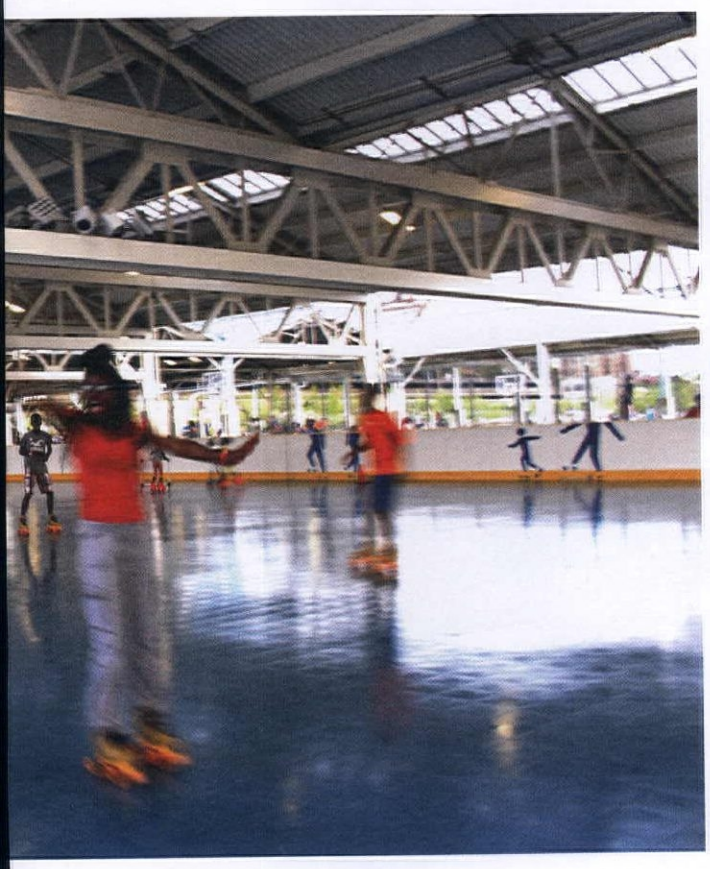




FUN FOR ALL AGES
At Brooklyn Bridge Park's Pier Two (opposite), zones are carved out for activities like bocce ball, basketball (left), swings (below), in-line skating (bottom), handball, and picnicking.



PHOTOGRAPHY: ELIZABETH FELICELLA



in-line skating rink. Bocce ball courts were added to attract a more mature set. And the views from the picnic tables are pretty nice, too.

Roofing was removed from the central portion of the pier's water- and skyline-facing side, Thompson explains, leaving a U-shaped covered area. "It gives the sense you're in a huge outdoor room," she says, "with arms hugging, and directing your view to, lower Manhattan."

ART IN THE HEARTLAND

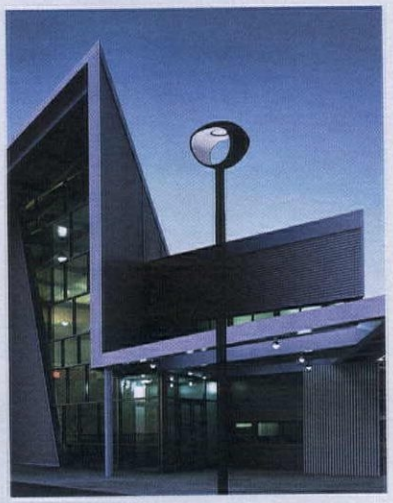
Though not skyscrapers, five monumental ceramic sculptures by Omaha-based artist Jun Kaneko command attention along an embankment, as does a bold pavilion of glass and black-zinc planes. The scene could be a hip gallery in a coastal metropolis, but it's actually a public amenity and rest stop in downtown Des Moines.

Designed by **Substance Architecture**, the site is part of the larger Principal Riverwalk development. Before the transformation, earthen levees mainly defined the decidedly pedestrian-unfriendly stretch. Today, thanks to a master plan by **Wallace Roberts and Todd**, it's inviting, with grassy knolls, a garden, promenades, staircases, a new footbridge, and paved paths linking previously unconnected Central Iowa trails.

"There was a break between the Meredith and Dorian trails," explains Substance principal Paul Mankins. "Cyclists had to know the system and use city streets to get from one to the other." Des Moines, like most urban hubs, Mankins points out, is undergoing a downtown housing renaissance of sorts as people return to live there. The River-

GET OUT(SIDE)!

COME RAIN OR SHINE, THESE OUTDOOR COMMERCIAL-GRADE SOLUTIONS WILL FEND OFF THE ELEMENTS IN STYLE.



NERI

The playful eye-like head of the Hydra outdoor light post, designed by Makio Hasuike, casts LED illumination. The steel and die-cast aluminum fixture comes with a black finish certified to last upwards of 1,500 hours despite salt, fog, and UV-ray exposure.
NERI.BIZ



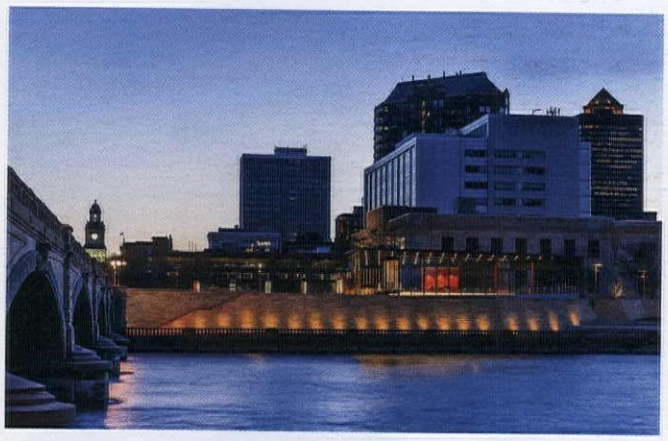
SPOHN RANCH

This L.A.-based design-build firm specializes in skate parks, such as the 24,000-square-foot, world-class Provo Skate Plaza in Utah where it utilized tinted concrete by Barkman for the ramps.
SPOHNRANCH.COM

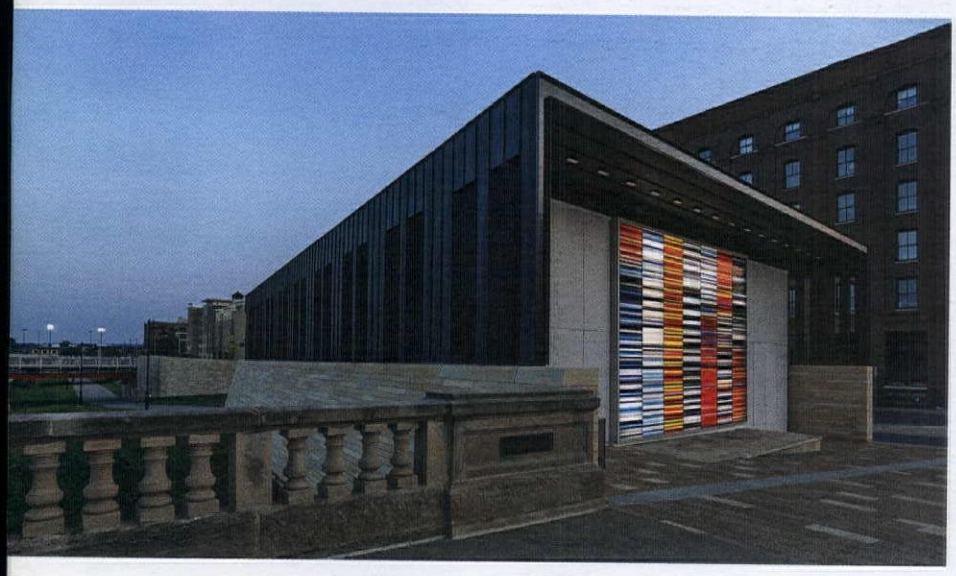


BISON

Constructed of responsibly harvested ipé, Cumaru, Garapa, or massaranduba woods, Westile pavers come in 2-foot-square and 2-by-4-foot formats. They're best used with Bison's fastening kit and deck supports, which allow for quick installation and single-tile removal.
BISONIP.COM







TRAIL MIX
Principal Riverwalk (top left) in downtown Des Moines consists of a pavilion (top right), paths that link existing Central Iowa hiking/biking trails, and a pump station (above) featuring a backlit artwork by Jun Kaneko.

walk allows residents access to the river and trails, and the pavilion provides plaza space, public toilets, and a café.

The washrooms and Riverwalk Hub café occupy the site's main building, whose **VMZinc** triangular roof creates generous overhangs on two facades; on the west side, the zinc folds down to become a louvered wall. The resulting vertical fins offer glimpses up the river while shielding the interior from sun. In the café, the glazed elevations are framed in a steel-sash system from **Hope's Windows** that maximizes light and views.

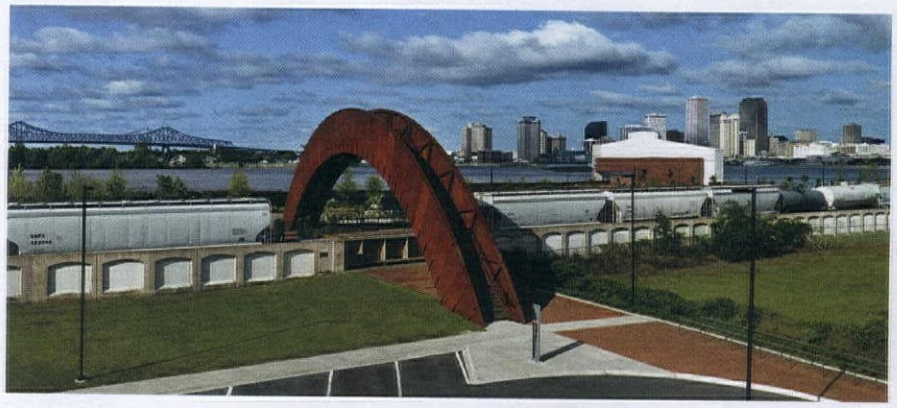
Insight Lighting's slot-shaped recessed LED fixtures dash across the ceiling and soffit, animating the pavilion even after the sun has gone down. Meanwhile, an adjacent pump station just to the south was designed by Substance Architecture to complement the main building and to conceal equipment used in flood events, something the city is sadly no stranger to. Black zinc wraps the station, too, save for the single facade featuring an illuminated glass mural, also a Jun Kaneko creation.

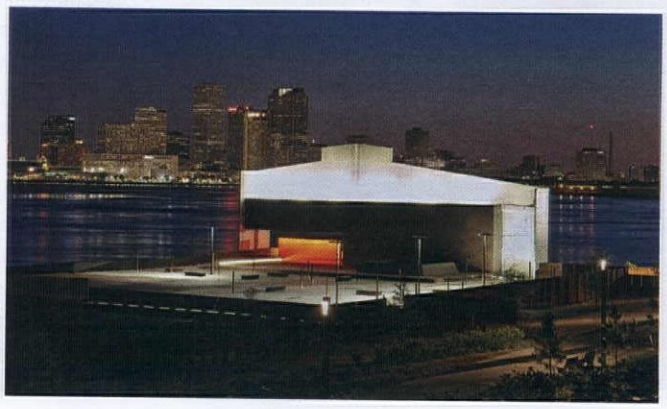
DOWN BY THE RIVERSIDE

New Orleans, all too accustomed with floods, is also reclaiming its waterfront for public use. Led by **Eskew+Dumez+Ripple** (EDR), a consortium consisting of **Hargreaves Associates**, **Michael Maltzan Architecture**, and **David Adjaye Associates** developed 1.4 miles of brownfield on the Mississippi River into Crescent Park. The main attractions are green space, bike and pedestrian paths, a dog park, footbridges, and industrial structures adapted as future venues.

On Piety Wharf, the 1800s shed may be gone, but its firewall remains intact. "We call this a port relic," says Amanda Rivera, an EDR associate. The design team cut away a portion of the wall to frame views of the city, inserted a tinted-concrete support wall, and placed a concrete platform in front, creating a dramatic backdrop for future events. (Construction on the park's Mandeville Wharf, still under way, will include a covered performance space.) Says Rivera, "Rather than erase the memory of old arced rail lines that ran through the site" in front of Piety Wharf, "we organized the planting, benches, and walking paths around those arcs." Meanwhile, other tracks and the city's floodwall can be traversed over the Piety footbridge, a massive Cor-Ten arch conceived by Adjaye.

The park side, which is mostly lined with native plantings and paths of granite cobblestone, brick from **St. Joe**, and permeable asphalt, is illuminated by sleek LED pole lights from **Hess America**. A variety of benches provide rest stops on both the park and wharf sides: slatted-wood-and-steel units from **Urban Art Project** (which also supplied bike racks and bollards), custom precast concrete, and custom granite. The granite benches serve double duty as street markers to help orient parkgoers; etched with the corresponding road name, they, as Rivera puts it, "bring the fabric of the city into the park." ■





ON THE WATERFRONT
New Orleans's Crescent Park returned the waterfront to the public, incorporating green space, pedestrian paths, a massive footbridge (above), and an event venue on a former industrial wharf (left).

PHOTOGRAPHY: PAUL CROSBY (CENTER LEFT, TOP LEFT AND RIGHT); TIMOTHY HURSLEY (CENTER RIGHT AND BOTTOM)

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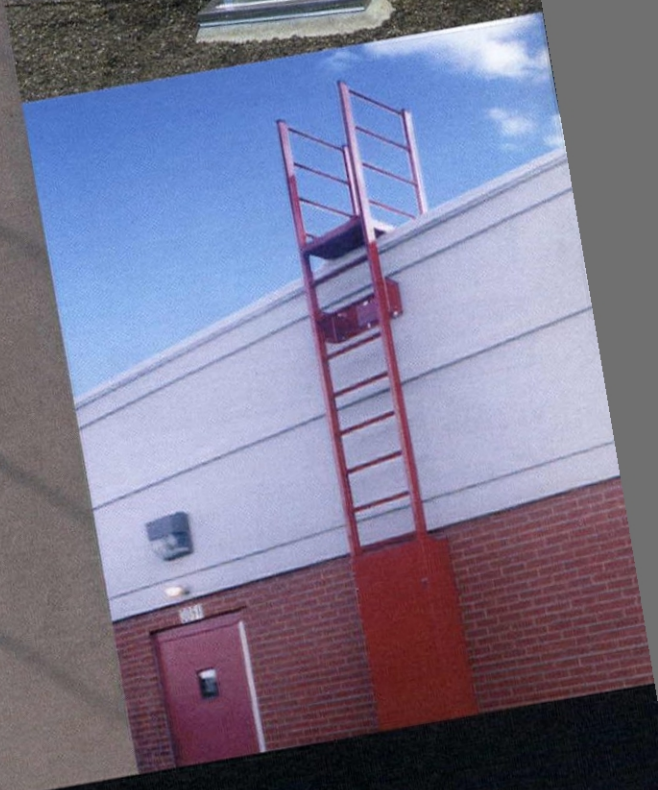
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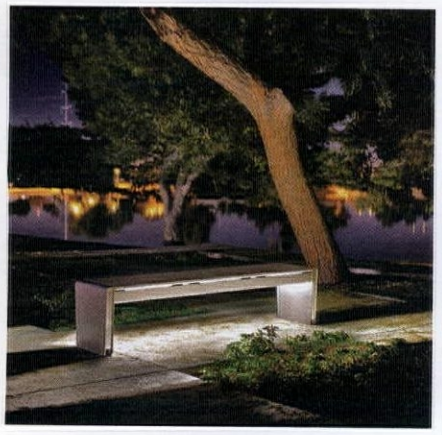
A SMART NEW WASTE and recycling system is keeping Central Park cleaner and more sustainable. Commissioned by the Central Park Conservancy, which maintains the New York City landmark, the system consists of three receptacles, for trash, paper, and cans/bottles. Custom designed by branding firm Landor Associates, the bins are manufactured by Landscape Forms's Studio 431, with funding and aluminum (30 percent recycled) provided by Alcoa.

According to Anthony Deen, creative director for Landor Associates, the project "uses design to educate visitors and modify their behavior." The system visually prompts sorted disposal with vertical slats that direct attention to the bins' different-size openings by articulating them with a swirling pattern, much like the shutter on a 35-millimeter camera, explains Kirt Martin, vice president at Landscape Forms. Typography and graphics further accentuate each opening. Landscape Forms now offers the receptacles as a standard product. Moreover, since installation, the park has seen a measured 35 percent increase in recycling compliance. *—Alice Liao*



CHANGE AGENT Initially designed for New York City's Central Park by Landor Associates, the Central Park Conservancy recycling and trash receptacles feature varied size openings, color coding, and graphics to educate users on the proper use of each bin.

KEY $=VALUE, $$=MID-RANGE, $$$=HIGH-END



VECTOR

MANUFACTURER: Forms + Surfaces
PERFORMANCE: This seating system consists of seven interchangeable modules: straight benches in four lengths, two benches angled at 120 degrees, and a 14-gallon planter.
PRICE RANGE: $$$
APPLICATIONS: Seats can be specified with FSC-certified Jatoba wood or powder-coated extruded-aluminum slats; under-seat LED lighting is an option. Ideal for public spaces.
FORMS-SURFACES.COM
(SNAP #15)



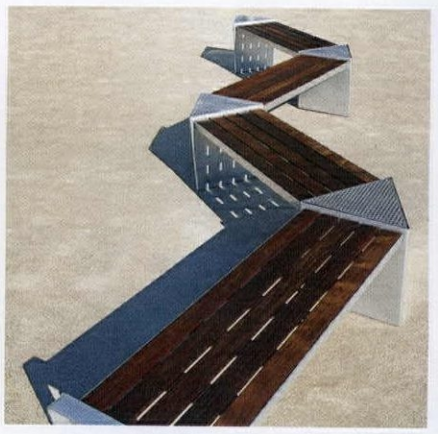
AGORA

MANUFACTURER: Quick Crete Product Corp.
PERFORMANCE: Artist Cliff Garten's cast-concrete collections include sculptural planters, benches, tables, waste containers, bike racks, and bollards, all of which incorporate recycled content.
PRICE RANGE: $$
APPLICATIONS: A wide range of sizes, colors, shapes, and styles complement a variety of outdoor settings, from residential to commercial.
AGORA.QUICKCRETE.COM
(SNAP #16)



DONAT

MANUFACTURER: Modern Design & Site Furniture
PERFORMANCE: Constructed from galvanized steel with a powder-coated finish, these cylindrical bollards feature a distinctive T-shaped cast-aluminum top that comes with or without an LED light source.
PRICE RANGE: N/A
APPLICATIONS: Offered in 39⅖- and 47⅕-inch-tall models with a 3- or 4½-inch diameter, the bollards are also available with a connecting chain.
MMCITE.COM
(SNAP #17)



LEXICON

MANUFACTURER: Maglin
PERFORMANCE: This collection's modular components include curved and straight seats and backs, and square or triangular connector units that double as stools, tables, or planters. The seats come in steel, ipé, plastic, and paper composite.
PRICE RANGE: $$$
APPLICATIONS: Well suited to indoor and outdoor public spaces, hospitality properties, offices, and institutional campuses.
MAGLIN.COM
(SNAP #18)

= ECO-FRIENDLY ATTRIBUTES

SNAP BACK: SITE FURNITURE



ALLISON COLWELL
Principal
Colwell Shelor Landscape Architecture
Phoenix

"We design site furnishings that are aesthetically integrated into the site or project. They should be visually appealing yet timeless and architecturally reflective of a place. The furnishings should also be made of durable materials that hold up in our extreme climate. Functionally, site furnishings in our projects activate a space and should be accessible and comfortable as well as thoughtfully located."



RAMONA FRY
Partner
Element Design
Lexington, Kentucky

"Recently we have seen some furnishings that incorporate lighting within the pieces, which provides not only visual interest but also the added benefit of introducing subtle lighting to pathways and expanding versatility for night use of public spaces. We have also seen the use of newer materials, such as higher-durability wood species and plastics that add warmth and color options for fairly minimal upcharge."

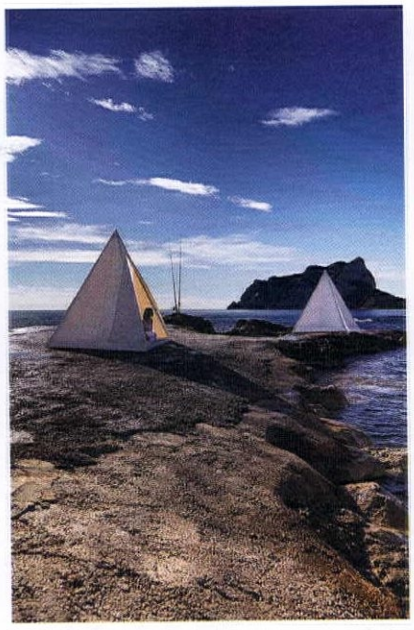


BROOKE LOEWEN
Senior Interior Designer
GrizForm Design Architects
Washington, D.C.

"The top issue for site furniture specification in hospitality use is durability, quickly followed by comfort and function. You have to know materials to ensure the longevity of a piece in any given environment. A few of our furniture vendors have recently added CNC machines to their production line. We've found this helps cut costs and opens up creative possibilities that were previously limited due to the production process."

The Shape of Things to Come





IN WONDERLAND
Among the eye-catching site furnishings popping up in the hospitality market are Vondom's AND seating system/sculpture (left) and Gandia Blasco's Tipi hideaway (above).

DRAMA AND WHIMSY are increasingly being introduced in hospitality settings—via site furnishings. Less restricted by spatial and visual concerns than their interior counterparts, the designs can be eclectic in inspiration, impressive in scale, and, in some cases, so appealing and clever, they approach art.

Vondom's AND Collection by Fabio Novembre, for example, is both seating system and sculpture. Made of rotationally molded, recyclable polyethylene, it features arced modules that can be freely configured for custom installations. Meanwhile, Patricia Urquiola designed the Cottage daybed for **Kettal** as a minimalist take on a familiar architectural typology to invite relaxation. Sizable yet cozy at 100 by 82 by 78 inches, it is shaded on one side and partially exposed on the other, and comes with drapes. **Gandia Blasco** borrows from Native American culture with Tipi, a modern, 208-inch-tall cone-shaped tent with an anodized-aluminum frame and plastic sheeting offered in an array of textures and colors. The base even comes with a mattress. Evocative of hammocks and swings, **Dedon**'s Swingrest by Daniel Pouzet is a series of suspended loungers featuring a basket-shaped bottom and a swiveling side table. The lounge chairs are offered in three sizes and standing models as well. —*AL*

SNAPSHOTS

SNAP FACT



3,324 FEET

The **length of the world's longest bench**. Built by SO Appenzeller Käse, it is located in Jakobsbad, Switzerland. Theoretically, it can seat 3,000 people.

SOURCE: GUINNESSWORLDRECORDS.COM

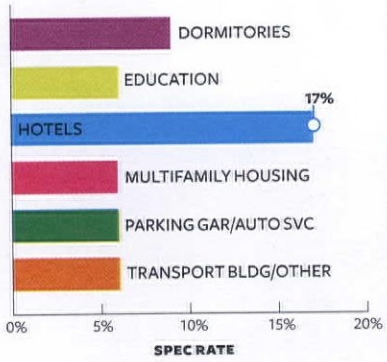
SITE SEATING AND TABLE MANUFACTURERS TO WATCH

PETERSEN MANUFACTURING CO.
HUNTCO SUPPLY
SITECRAFT

SOURCE: DOWNLOADS FROM **SWEETS.COM** OVER A 12-MONTH PERIOD

SITE FURNISHINGS

SPEC RATE BY PROJECT TYPE (APRIL 2014 TO MARCH 2015)



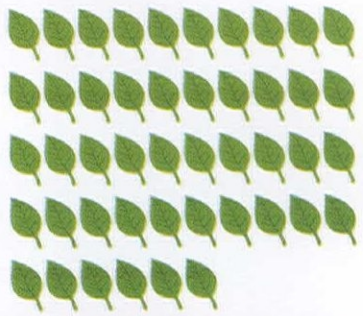
SOURCE: DODGE DATA & ANALYTICS

BICYCLE-RACK MANUFACTURERS TO WATCH

HUNTCO SUPPLY
AAA RIBBON BIKE RACK CO.
PETERSEN MANUFACTURING CO.

SOURCE: DOWNLOADS FROM **SWEETS.COM** OVER A 12-MONTH PERIOD

SNAP FACT



46 PROJECTS

The total number of projects that **have achieved Sustainable Sites Initiatives certification** under its 2009 Guidelines and Performance Benchmarks.

SOURCE: SUSTAINABLESITES.ORG



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DECK LIGHTS

MANUFACTURER: MoistureShield
PERFORMANCE: The company offers a variety of deck lights for recesses, posts, and stairs and under-rail spots.
PRICE RANGE: $$
APPLICATIONS: Exterior applications in residential or commercial projects.
MOISTURESHIELD.COM
(SNAP #19)



DURARAIL CABLE RAILING

MANUFACTURER: Duradek
PERFORMANCE: Durarail uses stainless-steel cables and powder-coated aluminum top rails and posts to create view-enhancing safety barriers. Cables come in three sizes.
PRICE RANGE: $$
APPLICATIONS: Interior or exterior railings in residential or commercial applications.
DURADEK.COM
(SNAP #20)



OLD YORK PAVERS

MANUFACTURER: Belgard
PERFORMANCE: In the company's Classic Collection, Old York gives the appearance of weathered clay brick in numerous face textures and installation patterns. Choose from five colors.
PRICE RANGE: $
APPLICATIONS: For a range of hardscapes: patios, walkways, driveways, and pool decks.
BELGARD.COM
(SNAP #21)

KEY $ = VALUE, $$ = MID-RANGE, $$$ = HIGH-END

PHOTOGRAPHY (FROM TOP RIGHT): ROBERT BENSON; LYDIA CUTTER

Green and Resilient

ONE WOULD HARDLY SUSPECT that a manufacturing facility once occupied the pristinely manicured site of Salem State University's new Marsh Hall, which was overhauled by WagnerHodgson. "From a landscape-architect point of view, the site had a lot of challenges," says partner Jeffrey Hodgson. "It had soil compaction, and being adjacent to a tidal basin made it very sensitive." The Z-shaped residence hall creates two courtyards connected by an outdoor portal, which in turn frames views of the tidal marsh. WagnerHodgson used an exposed aggregate walkway that orients the courtyards to the marsh and specified ipé bridges, stainless-steel gabions, and concrete seat/walls to reference the area's maritime history. And a sedum roof atop the building's lower level and bioswale helps reduce or filter runoff. —*Nigel F. Maynard*



SOAKING IT UP At Salem State University's Marsh Hall in Massachusetts, a 6,200-square-foot sedum roof reduces runoff to the revamped site.

SNAP BACK



TIM BROWN
Principal
Tim Brown Architecture
Austin

"The landscape should be an extension of the home—outdoor rooms, so to speak. Each design is different, but the same basic approach works for me. We like to use crushed dark stone contained by steel edging, board-form concrete, steel planters, and gabion form and massing. I don't specify plants, but I guide in choosing types that are low-water-using and low-maintenance."

"We specialize in using natural, native, and local materials that look and feel as if they've come from the earth itself. Sometimes we will incorporate a special material for a particular effect, such as self-weathering or an ornamental tree that perfectly expresses the feeling the client wants."



JULIE MOIR MESSERVY
Principal
Julie Moir Messervy Design Studio
Saxtons River, Vermont



JAMES RILL
Principal
Rill Architects
Bethesda, Maryland

"There's a lot of excitement right now about exterior rooms with fireplaces and fire pits. Everybody says, 'We want a terrace where we can sit and have a fire.' The other things we work with are water features, stone sitting walls, wood trellises, and pergolas: items that become worn over time and blend into the landscape."

SNAPSHOTS

LANDSCAPE LIGHTING MANUFACTURERS TO WATCH

NILAND COMPANY
INTENSE LIGHTING
VIVID LEDS

SOURCE: DOWNLOADS FROM **SWEETS.COM** OVER A 12-MONTH PERIOD

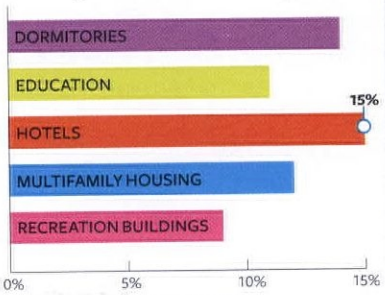
UNIT PAVING MANUFACTURERS TO WATCH

VALDERS STONE & MARBLE
AMERICAN HYDROTECH
ACME BRICK COMPANY

SOURCE: DOWNLOADS FROM **SWEETS.COM** OVER A 12-MONTH PERIOD

HARDSCAPE PAVERS

SPEC RATE BY PROJECT TYPE
(APRIL 2014 TO MARCH 2015)



SOURCE: DODGE DATA & ANALYTICS

SNAP FACT



The top-ranked undergraduate program for Landscape Architecture in 2015 is **Louisiana State University**; for graduate, the top program is at **Harvard University**.

SOURCE: "AMERICA'S BEST ARCHITECTURE & DESIGN SCHOOLS" REPORT, DESIGNINTELLIGENCE

San Francisco Treat

ALTHOUGH LOCATED AT THE INTERSECTION of three busy thoroughfares, San Francisco's 555 Market Street office building maintains a dramatic presence, especially after sundown. The striking custom light fixture in the glowing lobby— renovated by local architecture firm Huntsman Group—draws pedestrians and potential tenants alike.

A collaboration between Huntsman, lighting designer Melinda Morrison, and fabricator Niedhardt, the lobby's light sculpture features 49 metal cylinders arranged in a grid and descending from a ceiling plane to form a hyperbolic parabola. The cylinders were machined to lengths of 55¾ to 86¾ inches and the lenses individually shaped so "the aggregate would flow visually," notes David Fink, principal in charge for Huntsman. The lenses' edges are beveled and polished to give the light a crisp appearance.

Xicato LED modules, each powered by a Lutron dimming driver, illuminate the fixture, ensuring visibility from the street while minimizing energy usage and maintenance. To further the savings, a Lutron system adjusts light levels. —*Alice Liao*



GO TOWARD THE LIGHT Japanese origami was the inspiration for the saddle-like chandelier at 555 Market Street, composed of 49 cylinders illuminated with 14.5-watt Xicato LEDs.

KEY $=VALUE, $$=MID-RANGE, $$$=HIGH-END



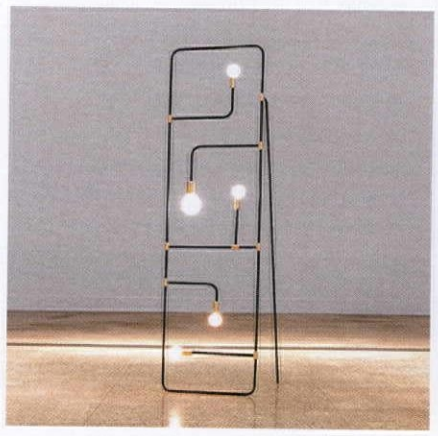
SILENZIO

MANUFACTURER: Luceplan
PERFORMANCE: As its name suggests, the Silenzio pendant incorporates sound-absorbing materials, including an exterior made of Kvadrat Remix 2 fabric in light or dark gray, rust, or sand. It accommodates three 30-watt LED or fluorescent medium-base sources.
PRICE RANGE: $$
APPLICATIONS: Three scales—up to 17⅞ by 59 inches—make this fixture suitable for both residential and contract interiors.
LUCEPLAN.COM
(**SNAP #22**)



ELEMENT

MANUFACTURER: Corbett Lighting
PERFORMANCE: This pendant evokes molecular structures with its handcrafted iron arms finished in bronze and 40 glass globes, each lit with a halogen or LED G9 lamping.
PRICE RANGE: $$
APPLICATIONS: Several shapes and sizes complement a variety of interior applications, from hospitality and office to residential. Also available are semi-flush-mount and ADA-compliant wall designs.
CORBETTLIGHTING.COM
(**SNAP #23**)



BEAUBIEN

MANUFACTURER: Lambert & Fils
PERFORMANCE: Inspired by modernism, Chinese floor screens, and the Memphis art movement, this series of decorative fixtures pairs black powder-coated steel and aluminum rods with brass connectors and exposed bulbs. They are offered in incandescent, halogen, and LED models.
PRICE RANGE: $$
APPLICATIONS: The indoor luminaire can be mounted on the wall, floor, or ceiling. Pendants are also offered.
LAMBERTETFILS.COM
(**SNAP #24**)



LA CAGÉ

MANUFACTURER: Ilex Architectural Lighting
PERFORMANCE: A 9-by-14-inch wire cage encloses an opal diffuser in this pendant by designer Mick Ricereto. Lit with a 60-watt candelabra incandescent lamp (LED available for special orders), it is suspended via an 8-foot field-adjustable cord.
PRICE RANGE: $
APPLICATIONS: The fixture comes in polished nickel or matte black, white, teal, or custom-color powder coating.
ILEXLIGHT.COM
(**SNAP #25**)

PHOTOGRAPHY: SHARON RISEDORPH

SNAP BACK: DECORATIVE LIGHTING



JAMES BANEY
Partner
Schuler Shook
Chicago

"There are several new LED backlighting products that include a flexible film incorporating grids of low-power LEDs. We have seen some decorative fixture manufacturers successfully use these to create uniformly illuminated shades. Having more low-power sources enables the fixture to use more efficient diffusers with higher transmission values."



KRISTEN NAKAMURA
Designer
Montalba Architects
Santa Monica, California

"It's important when specifying decorative lighting to think about how we intend the fixture to come together with the architecture of the space. I find we often look at a decorative lighting fixture as an object and forget it has to contribute to the story that we're trying to tell—not only what it does experientially but also how its illumination and materials work with the details around it."



JOHN SOFIO
President and Founder
Built
Los Angeles

"With the new national electrical code, the only way to fulfill low-voltage and minimal wattage-per-square-foot requirements is to incorporate more LED lamping in our design work. In decorative lighting, where xenon bulbs trended a few years ago, the need for warm white light has led to the use of MR16-type halogens or amber LEDs. Another interesting development is LED bulbs that mimic Edison bulbs."

DIY with Light



DIRECTOR'S CUT The Set wall luminaire by Vibia includes one light source and additional reflectors that can be positioned and turned to direct light any which way (multiple-unit kit shown).

THE CALL FOR CUSTOMIZATION is being answered with new decorative lighting products in designs offering varying degrees of flexibility. An affordable alternative to fully custom models, they range from modular systems inviting free configuration to fixtures whose flexible-positioning features add visual appeal.

LightArt's LA2 Connected and Connected:Rings let designers create LED fixtures in **Google** SketchUp using 10 modular pieces or six rings of varying diameters, respectively. The designs are then fabricated from 3form's Varia Ecoresin in a choice of 1,000 hues—at about half the cost of a custom fixture, points out Ryan Smith, company president and creative director.

Vibia's Set features a single light source and four rectangular reflector modules that users rotate to bounce light in different directions. The system is available in single- or multiple-unit kits.

Long cables are integral to both functionality and aesthetics in **Flos**'s AIM pendant by Ronan and Erwan Bouroullec and String Lights by Michael Anastassiades. AIM comes with a 29½-inch-long cable that's adjustable for optimal aiming and visual impact; String Lights features a 39³⁄₁₀- or 72¹⁄₁₀-foot cable that can be manipulated to add interest to a space. —*AL*

SNAPSHOTS

NEW MATH

$25.1 BILLION

Demand for lighting fixtures in the U.S. is projected to increase 7.4% annually to $25.1 billion **in 2016**. The residential market is expected to post the strongest gains, nearly doubling between 2011 and 2016, as new residential construction activity rebounds.

SOURCE: FREEDONIA

LIGHTING CONTROLS FOR SINGLE-FAMILY RESIDENCES

SPEC RATE OVER TIME
(AUGUST 2014 TO APRIL 2015)



SOURCE: DODGE DATA & ANALYTICS

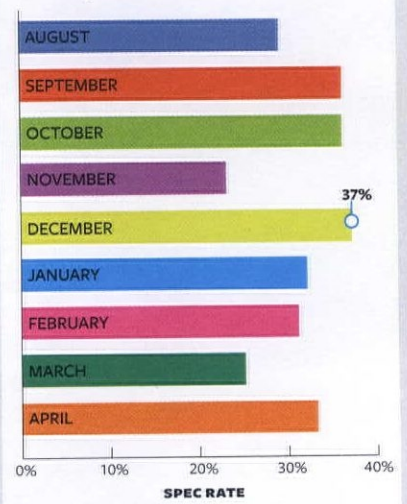
SNAP FACT

The **largest measured and recorded chandelier** is installed in the Ali Bin Khalifa Al Hitmi & Co. building in Doha, Qatar. It weighs 39,683 pounds and holds 165,000 LEDs.

SOURCE: *GUINNESS BOOK OF WORLD RECORDS*, 2010

INTERIOR LIGHTING FOR MULTIFAMILY HOUSING

SPEC RATE OVER TIME
(AUGUST 2014 TO APRIL 2015)



SOURCE: DODGE DATA & ANALYTICS

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ENDICOTT BIM endicott.com

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Detail

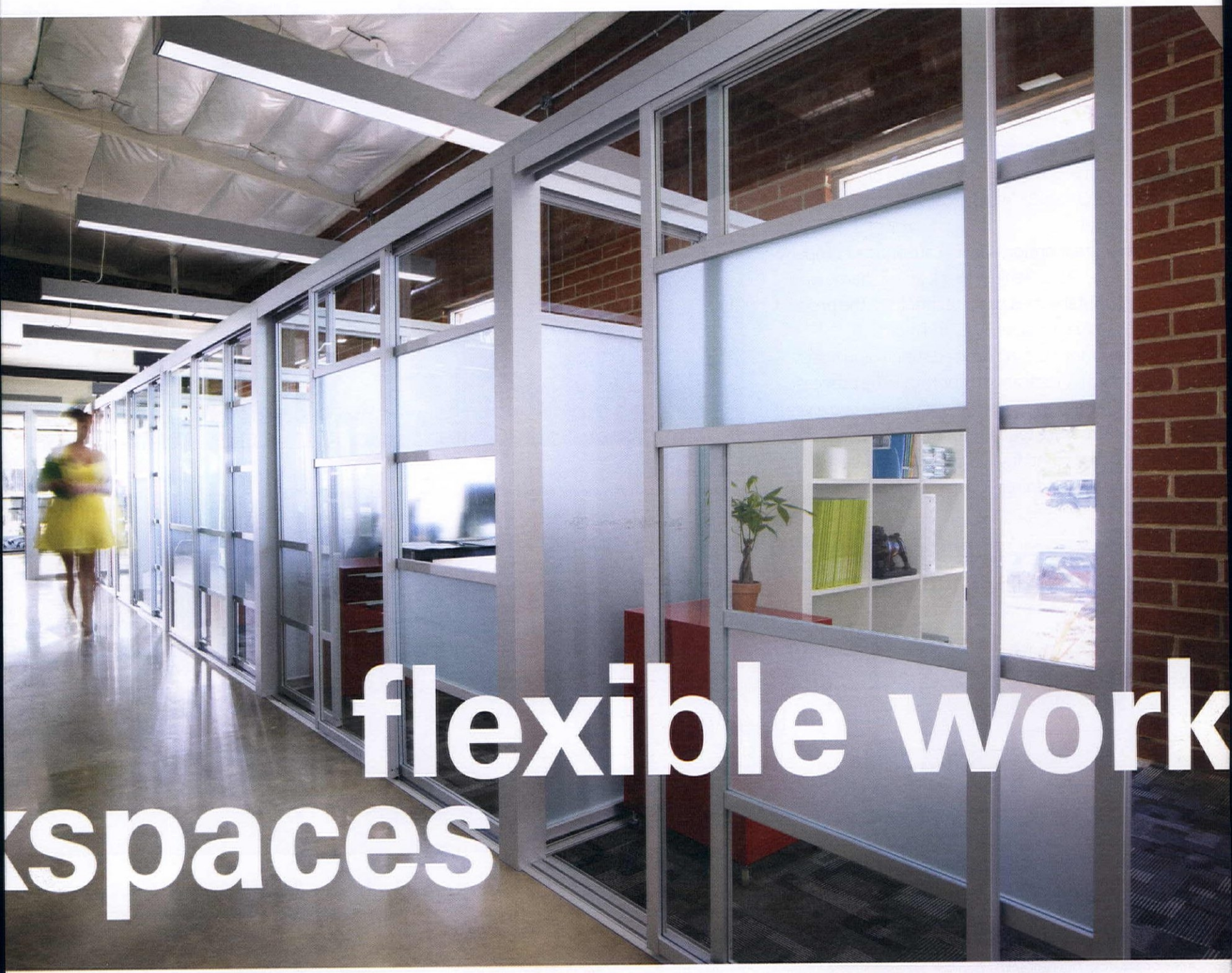
Teacher's Village, Newark, NJ

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Outside the Lines

TODAY, TECHNOLOGICAL advancements in processing, treating, and finishing wood floors are yielding some surprising results.

One innovation comes from Bolefloor in the Netherlands. While grain pattern has always been a prominent feature of wood, the product further exposes the material's beauty by revealing the organic shape of the tree trunk. "Designers can take a step forward from straight edges, which were really due to a limitation of technology for hundreds of years," says company CEO Rain Eisler, who calls the product a game changer.

Another great option is from Lauzon, the company that produces Pure Genius "air-cleaning" hardwood flooring. Via titanium-dioxide technology, the product decomposes bacteria, viruses, and mold.

And Thermory has introduced steam- and heat-treated North American ash flooring. "The process changes the color of the wood, stabilizes it, and gives it exceptional rot resistance," says Kevin DeMars, principal of the company, which also produces wood for decking and cladding. —*Nigel F. Maynard*



AU NATUREL The live-edge style of Bolefloor's wood planks add dimension, warmth, and visual interest to a concrete house. The company offers both solid and engineered wood planks with or without beveling.

KEY $ = VALUE, $$ = MID-RANGE, $$$ = HIGH-END



MARMOLEUM MODULAR STRIATO

MANUFACTURER: Forbo Flooring Systems

PERFORMANCE: This resilient tile flooring comes in a range of shapes, sizes, formats, and colors (44), allowing architects, designers, and homeowners to create custom installations.

PRICE RANGE: $

APPLICATIONS: Suitable for residential, commercial, and industrial projects.

FORBO.COM

(**SNAP #26**)



INVISION FICTION

MANUFACTURER: J+J Flooring Group

PERFORMANCE: Constructed of recycled-content dyed nylon and offered in 10 colors, Fiction is a 24-inch-square modular carpet tile with tonal textures on a neutral background.

PRICE RANGE: $

APPLICATIONS: Ideal for commercial, hospitality, and education settings.

JJ-INVISION.COM

(**SNAP #27**)



THINNER

MANUFACTURER: Florida Tile

PERFORMANCE: Pressed at a force of 15,000 tons, these porcelain stoneware slabs are ultra slim (⅛ inch thick), light, flat, and simple to cut, drill, and install. They max out at 118 by 39⅓ inches.

PRICE RANGE: $$–$$$

APPLICATIONS: Interior and exterior floors and walls, as well as countertops, in residential and light commercial projects. A ¼-inch-thick version is also offered for commercial applications.

FLORIDATILE.COM

(**SNAP #28**)



REDEFINED CHECK

MANUFACTURER: Mannington Commercial

PERFORMANCE: The Redefined Collection's durable Check and Herry nylon contract carpet reimagines fashion classics in an 18-by-36-inch plank format and 15 colorways.

PRICE RANGE: $

APPLICATIONS: Suits most commercial, retail, higher education, hospitality, and health-care environments.

MANNINGTONCOMMERCIAL.COM

(**SNAP #29**)

= ECO-FRIENDLY ATTRIBUTES

SNAP BACK: FLOORING



CHRISTOPHER GRUBB
President
Arch-Interiors Design Group
Beverly Hills

"We look for the unexpected or unusual. For one project, we just used a hexagonal carpet tile that's a mix of solids and linear patterns. Seventy-five percent of our specifications are now carpet tile because it's so easy to swap out a tile as needed if there is a maintenance issue and because there's variety of patterns and tone-on-tone texture."



ALICIA KINLOCH
Senior Interior Designer
Elias Associates
New York City

"The biggest change in flooring I've seen over the last decade is in porcelain tile. Advances in manufacturing and digital printing allow for much more realistic and interesting patterns. The tiles themselves come in a larger range of sizes, so they can be used in lieu of stone slab or to re-create the look of wood."



WILLIAM RUHL
Principal
Ruhl Walker Architects
Boston

"We try to stick to the basics, sourcing durable local materials that stay within our clients' budgetary constraints. For lofts and offices, we try to work with existing concrete slabs to minimize using materials that break down and need replacing. For houses, we specify local hardwoods and natural stones as well as porcelain tiles."

The Heat Is On



BEST OF BOTH WORLDS
Rehau's new hybrid Rauboard system installs like dry radiant heating but utilizes water as a wet system does.

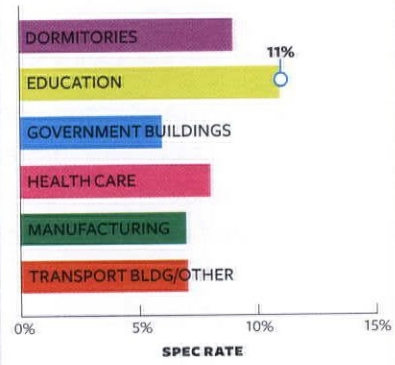
ONE OF THE MOST EFFICIENT ways to heat a room is with radiant floors. Unlike the forced-air kind, radiant heating eliminates duct loss, doesn't distribute dust, and feels amazing underfoot. Two basic systems are largely available.

The first, dry installation, consists of electric wires set beneath the floor covering. Best suited to zoned heating, this system is easier and more economical to install. **Nuheat** and **Laticrete International** are two companies that offer it. In the wet installation system, heated water is pumped from a boiler through plastic tubing laid in concrete or installed in aluminum panels under flooring. This system is ideal for whole-house heating and thus is more typical and cost-effective in colder climates. Some popular manufacturers are **Lyndonville**, **RadianTec**, and **Warmboard**.

The U.S. Department of Energy cites a dry system, in which the cables—or tubing—run in an air space beneath the floor or subfloor, between the joists. It's faster and less expensive to build than are the other options, according to the DOE. One such system is **Rehau**'s Rauboard: Water tubes snap into grooves in this ½-inch profile, lightweight plywood panel. It installs between the finished floor and the subfloor or on walls underneath the gypsum board. —*NFM*

SNAPSHOTS

TERRAZZO FLOORING
SPEC RATE BY PROJECT TYPE
(APRIL 2014 TO MARCH 2015)



SOURCE: DODGE DATA & ANALYTICS

SNAP MATH

$18.76 BILLION

U.S. floor-covering sales in 2012 were $18.76 billion (in wholesale dollars).

SOURCE: *FLOOR COVERING WEEKLY*

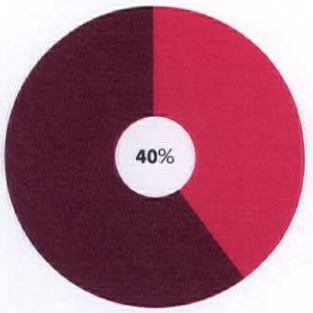
RESILIENT FLOORING MANUFACTURERS TO WATCH

BURKE FLOORING
FORBO FLOORING
MUSSON

SOURCE: DOWNLOADS FROM **SWEETS.COM** OVER A 12-MONTH PERIOD

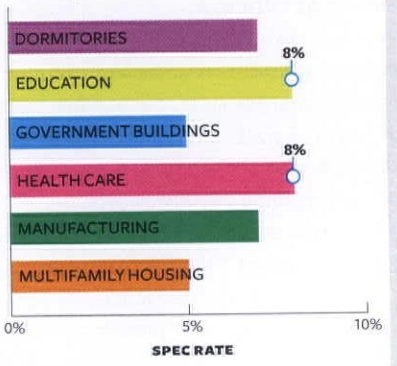
SNAP FACT

In 2013, **carpet accounted for 40%** of the U.S. flooring industry.



SOURCE: STATISTA

LINOLEUM FLOORING
SPEC RATE BY PROJECT TYPE
(APRIL 2014 TO MARCH 2015)

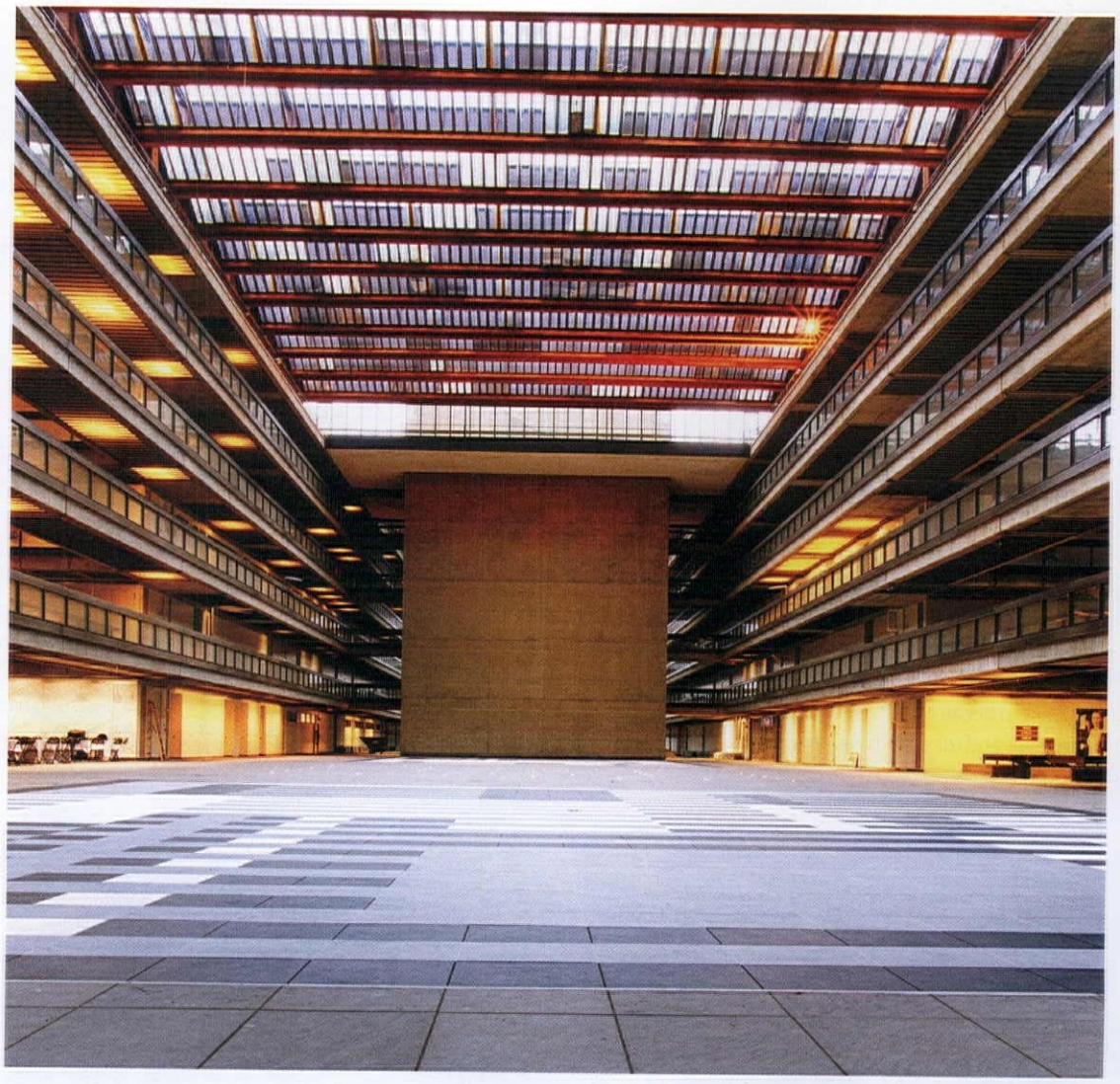


SOURCE: DODGE DATA & ANALYTICS

Square Dancing

AS PART OF HIS TRANSFORMATION of Eero Saarinen's Bell Labs, a 1960s project in Holmdel, New Jersey, into an innovative commercial space for offices, retail, and events, architect Alexander Gorlin commissioned identical installations at either side of the atrium's floor. Adapted from the Josef Albers 1926 artwork *Goldrosa*, each design was enlarged to a pedestrian scale and recolored—with the permission of the Josef and Anni Albers Foundation—in a palette of black, white, and gray. "The spatial interpenetration of the building itself can be seen in Albers's pattern," says Gorlin. "We're continuing Saarinen's idea of nested squares."

Composed of ImolaCeramica's Micron 2.0 full-body porcelain stoneware tiles, the refined installations are interactions of color celebrating the square. Mirage's Quartziti ceramic tiles are used to carry through the original quartzite of the foyer, complementing the floor patterns in color and style. This integration of art into the architecture makes the Bell Labs project an especially appealing site for potential cultural institution tenants and installations. —*Lisa Caldwell*



ALL TILED UP Alexander Gorlin's renovation of Eero Saarinen's Bell Labs in New Jersey incorporates a pair of identical floor-tile installations (one seen in foreground) modeled after artwork by Josef Albers.

KEY $=VALUE, $$=MID-RANGE, $$$=HIGH-END



ALTITUDES TORSION SPRING

MANUFACTURER: Armstrong Ceiling & Wall Systems

PERFORMANCE: These sag-resistant, metal-framed fiberglass ceiling panels with an NRC 0.85 and Class A fire rating are seismic tested and approved. The finishes are resistant to mold and mildew growth.

PRICE RANGE: $$

APPLICATIONS: The large-format panels deliver a monolithic appearance well suited to modern offices and other commercial settings.

ARMSTRONG.COM

(SNAP #30)



MODERN CHERRY

MANUFACTURER: Arborite

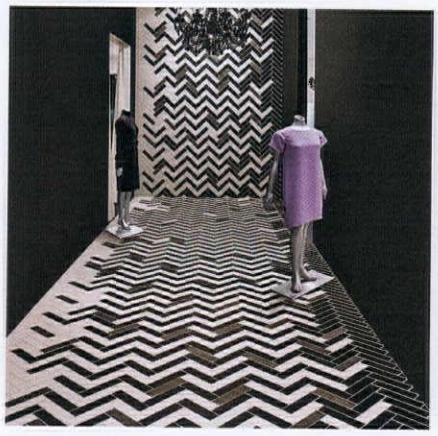
PERFORMANCE: The laminate, offered in eight sheet sizes and four colors, is Greenguard certified for Indoor Air Quality.

PRICE RANGE: $

APPLICATIONS: For various interior uses where laminate is typically specified.

ARBORITE.COM

(SNAP #31)



BOSTON BRICK

MANUFACTURER: Natucer

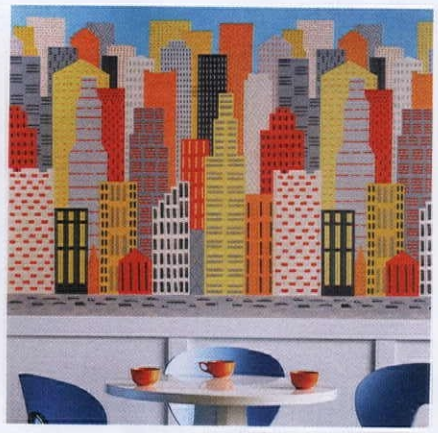
PERFORMANCE: This frostproof porcelain tile is rated for use indoors and out.

PRICE RANGE: $$

APPLICATIONS: This durable product that mimics handmade brick is suitable for floor and wall treatments. The tile comes in nine colors and three formats, an extruded corner piece among them.

NATUCER.ES

(SNAP #32)



BIG CITY TRAFFIC

MANUFACTURER: Wilsonart

PERFORMANCE: The design is included in the Virtual Design Library, a laminate collection that's interior rated and Greenguard Gold certified. Turnaround from factory to fabricator is two to three weeks; sheets measure 4 by 8 and 5 by 12 feet.

PRICE RANGE: $

APPLICATIONS: The library's 150 designs are grouped into nine themed series—from Geometrics to Nature—thus streamlining the specification process for designers.

WILSONART.COM

(SNAP #33)

PHOTOGRAPHY: COURTESY ALEXANDER GORLIN ARCHITECTS

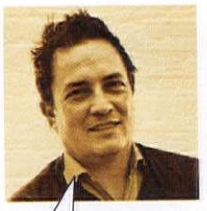
= ECO-FRIENDLY ATTRIBUTES

SNAP BACK: FINISHES



MARK MANCUSO
Principal
thread collective
New York City

"For a long time we've been involved in resiliency planning and sustainable design, and in the course of our work we saw the opportunity to reclaim locally available wood and other materials. We applied beautiful ipé planks salvaged from the Coney Island boardwalk to the exterior of a mixed-use building a few miles away. Ipé is an ideal species for exteriors, terraces, and flooring because it's durable and highly stable."



JORGE MASTROPIETRO
Principal
Jorge Mastropietro Architects Atelier
New York City

"We've been exploring new materials with significant benefits in sustainability and aesthetic opportunities. One is cork as an exposed facade material, not simply as a floor and interior wallcovering. We're designing our first cork facade in Brooklyn. Cork is incredibly stable and meets fire-safety codes. It has all the benefits of a natural recyclable material, but best of all, it has the innate beauty of trees and bark."



XIMENA RODRIGUEZ
Associate Principal, Director of Interior Design
CetraRuddy
New York City

"In our experience, glass is valuable for adopting global influences and today's technology. We've used all kinds, including art glass for kitchen enclosures in Walker Tower. The bronze glass curtain wall for the One Madison tower echoes the masonry of the Flatiron District in Manhattan. Colored structural glass can be used for stairs, and glass tiles are fun, too."

Writing—and Drawing—on the Wall



THEY'VE GOT PULL Sheet-based magnetic wallcoverings offer both aesthetic and functional design options in an easy installation package.

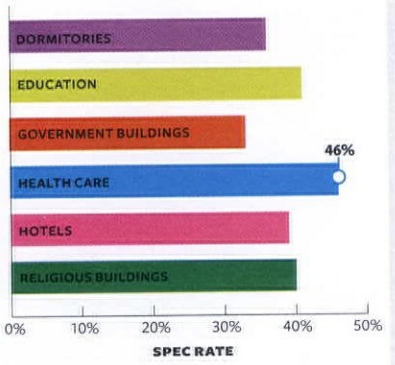
WHILE DIGITAL, screen-based messaging may work for some institutions, there are certain environments—such as offices, educational facilities, and hospitality venues—that have an ongoing need for high-quality and -impact wall graphics systems that can be quickly swapped. Stepping into this niche is **Visual Dynamics**.

The company's Dynamic Spaces is a collection of magnetic-based wallcoverings whose installation process is significantly faster and neater than that of conventional coverings. First, the wall is painted with a coat of latex-based magnetic primer. Second, a mid-layer of flexible magnetized tiles is applied. Finally, the magnetic-receptive surface layer is rolled onto the wall. In addition to custom printed or stock surface layers, more than 20 specialized finishes are available, including dry-erase surfaces, veneers, and textile wallcoverings. Dimensional objects like frames and shelves can be affixed with the company's InvisiLock product. And a new accessory package named MindLayers adds the utility and flexibility of office stickies to the system in the form of magnetized dry-erase "note cards." An efficient and paperless way to record ideas, the reusable MindLayer notes require no adhesive and are made from non-ghosting PVC-free material. —*LC*

SNAPSHOTS

PLASTIC LAMINATE

SPEC RATE BY PROJECT TYPE
(APRIL 2014 TO MARCH 2015)



SOURCE: DODGE DATA & ANALYTICS

NEW MATH

11.9 BILLION

U.S. demand for decorative laminates will rise 4.1% per year to 11.9 billion per square feet in 2018.

SOURCE: FREEDONIA GROUP

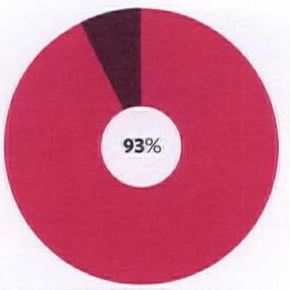
WALL PANEL MANUFACTURERS TO WATCH

TECTUM
CRANE COMPOSITES
ACOUSTICAL SURFACES

SOURCE: DOWNLOADS FROM **SWEETS.COM** OVER A 12-MONTH PERIOD

SNAP FACT

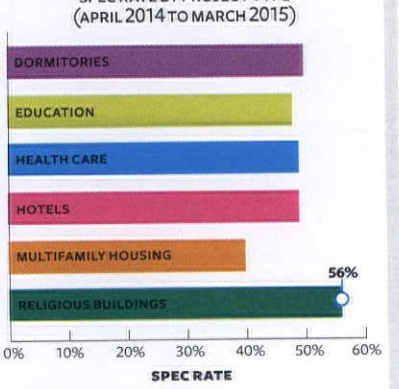
The **nonresidential market**, which dominates **U.S. ceiling-product demand**, is projected to hold 93% of the total market in 2018.



SOURCE: FREEDONIA GROUP

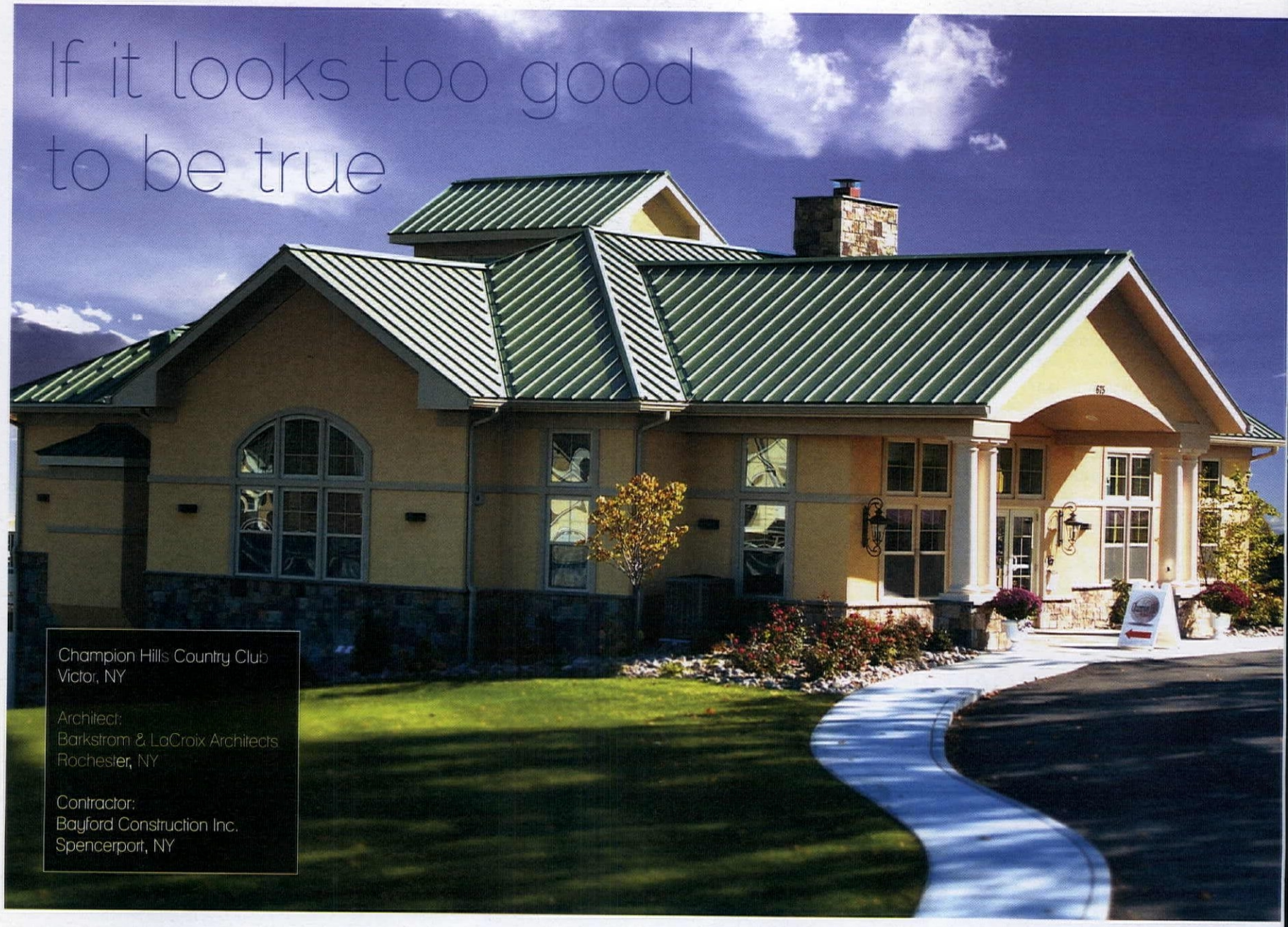
CERAMIC, PORCELAIN, AND MOSAIC TILES

SPEC RATE BY PROJECT TYPE
(APRIL 2014 TO MARCH 2015)



SOURCE: DODGE DATA & ANALYTICS

If it looks too good to be true



Champion Hills Country Club
Victor, NY

Architect:
Barkstrom & LaCroix Architects
Rochester, NY

Contractor:
Bayford Construction Inc.
Spencerport, NY

...it's ATAS

Above: Dutch Seam in Patina Green

- Continuous standing seam metal roof panel with an integral seam
- Available with or without striations or stiffening ribs
- Panels available in smooth or embossed texture
- Choice of 31 standard colors and 65 designer colors
- KYNAR 500® PVDF or HYLAR 5000® PVDF finish

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THE Josef Collection

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The New Josef Collection by Corbin Russwin delivers modern design in smooth, bold shapes. Inspired by the works of Josef Albers, this collection of levers will bring a fresh look to your interior.

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ASSA ABLOY, the global leader in door opening solutions

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SNAP 244

How the West Has Won

An economic recovery is under way in four western states. BY J. MICHAEL WELTON



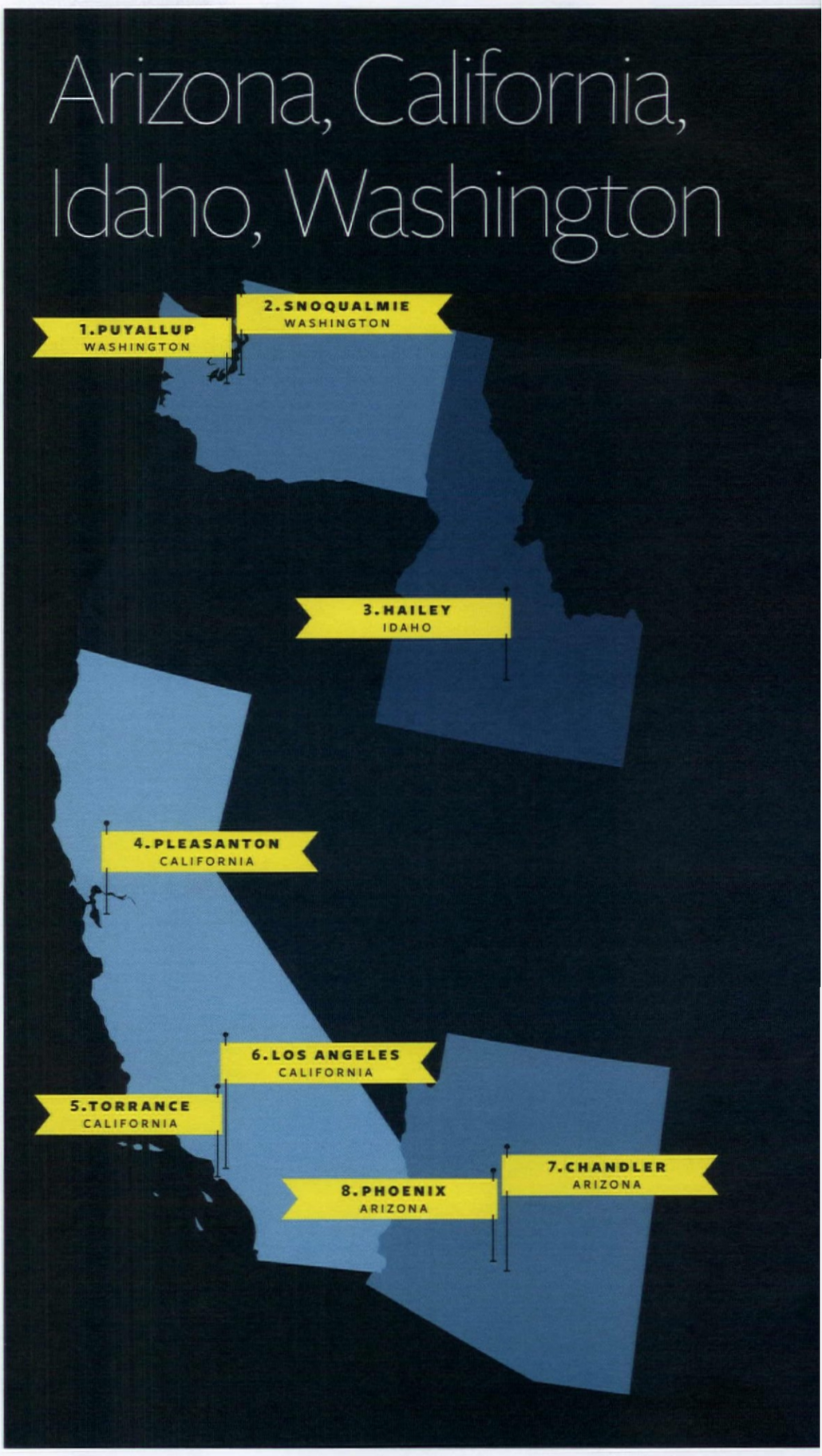
AGGRESSIVENESS—in the form of acquisitions, new products, and stepped-up marketing—proved instrumental to success for four western building-products manufacturers over the last five years.

For **Rocky Mountain Hardware**, based in Hailey, Idaho, 2008 proved the best in the company's 22 years. A year later, post-downturn, sales plummeted by 50 percent. Now they're on their way to 2008 levels thanks to a single acquisition. "Previously we did sand casting and some lost wax casting," says president Christian Nickum. "In 2013, we purchased Noblius, which was strictly doing lost wax casting, so now we have the best of both worlds."

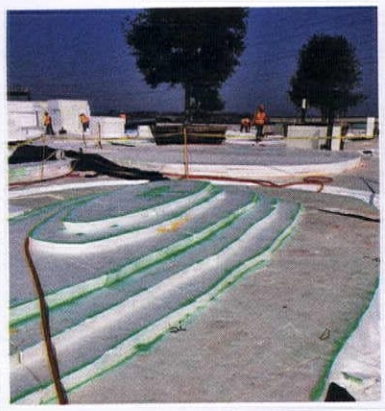
In Torrance, California, **Doug Mockett & Company**, also an architectural hardware manufacturer, simply refused to hunker down. "Two years ago, business came down a bit, but we decided to be more aggressive and that helped us recover faster than others," says spokesman Diego Wuethrich. "We hired more people, we have more products, and we're not doing badly." Modesty aside, Mockett now employs 55 people, compared to 40 five years ago.

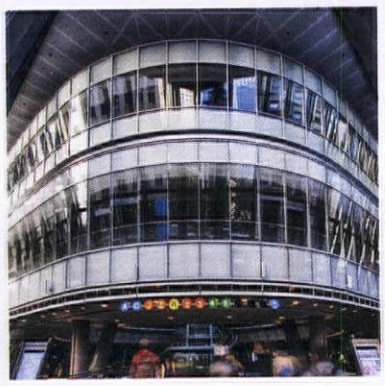
Business for **Insulfoam** is "absolutely wonderful," with 15 percent growth, says Rick Canaday, the California general manager. Its Puyallup, Washington, plant produces expanded polystyrene (EPS) and graphite polystyrene (GPS) insulation, as well as EPS geofoam lightweight fill (its products were recently specified for the rooftop garden of the Facebook headquarters, in Menlo Park, California).

And **Bonded Logic**, a denim insulation business in Chandler, Arizona, actively pursued—and in 2010 scored with—big-box retailers Lowes, Home Depot, and Menards. "This strategy allowed our sales to grow 150 percent over a five-year period," says Sean Desmond, director of sales and marketing. Now, that's aggressive growth.



1 **MANUFACTURER:** Insulfoam **LOCATION:** Puyallup, Washington **PRODUCTS:** EPS and GPS insulation and EPS geofoam lightweight fill. **FOUNDED:** 1959 **EMPLOYEES:** 125 (PLANT) **PRICE RANGE:** $ **INSULFOAM.COM**



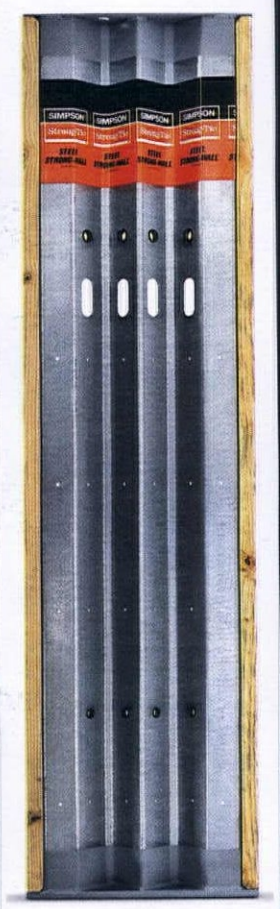


2 **MANUFACTURER:** Technical Glass Products **LOCATION:** Snoqualmie, Washington **PRODUCTS:** Fire-rated and non-fire-rated architectural ceramic glass and frame products. **FOUNDED:** 1980 **EMPLOYEES:** 100+ **PRICE RANGE:** $$–$$$ **FIREGLASS.COM**

3 **MANUFACTURER:** Rocky Mountain Hardware **LOCATION:** Hailey, Idaho **PRODUCTS:** Hand-cast, art-grade bronze cabinet, door, and window hardware, accessories, lighting, tile, and kitchen and bath fittings and fixtures. **FOUNDED:** 1994 **EMPLOYEES:** 150 **PRICE RANGE:** $–$$$ **ROCKYMOUNTAINHARDWARE.COM**



4 **MANUFACTURER:** Simpson Strong Tie **LOCATION:** Pleasanton, California **PRODUCTS:** Structural connectors, prefabricated wood, and steel shear walls. **FOUNDED:** 1956 **EMPLOYEES:** 2,500 **PRICE RANGE:** $–$$$ **STRONGTIE.COM**

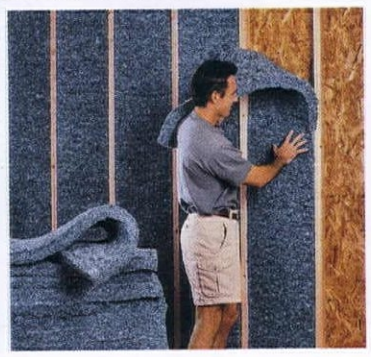




5 **MANUFACTURER:** Doug Mockett & Company **LOCATION:** Torrance, California **PRODUCTS:** Architectural and furniture hardware and accessories. **FOUNDED:** 1980 **EMPLOYEES:** 60 **PRICE RANGE:** $$ **MOCKETT.COM**

6 **MANUFACTURER:** CRL-U.S. Aluminum **LOCATION:** Los Angeles **PRODUCTS:** Entrances and storefronts, doors, door hardware and controls, and railing systems. **FOUNDED:** 1963 **EMPLOYEES:** 1,700+ **PRICE RANGE:** $–$$$ **CRL-ARCH.COM**





7 **MANUFACTURER:** Bonded Logic **LOCATION:** Chandler, Arizona **PRODUCTS:** Denim insulation, sound control systems, and thermal shipping products. **FOUNDED:** 1996 **EMPLOYEES:** 50 **PRICE RANGE:** $$ **BONDEDLOGIC.COM**

8 **MANUFACTURER:** Kornegay Design **LOCATION:** Phoenix **PRODUCTS:** Precast-concrete landscape containers, trash receptacles, and benches. **FOUNDED:** 1997 **EMPLOYEES:** 11 **PRICE RANGE:** $$ **KORNEGAYDESIGN.COM**



SNAPSHOTS

ARIZONA

Arizona's total manufacturing output for 2013 was

$24 BILLION

In 2012, Arizona exported $1.3 billion in metal ores and **$772 million in other fabricated metals**.

SOURCES: NATIONAL ASSOCIATION OF MANUFACTURERS, BUSINESS ROUNDTABLE

CALIFORNIA

California's total manufacturing output for 2013 was $239.01 billion.



The aluminum industry **generates nearly $13.3 billion** in economic activity in California, or 0.66 percent of the state's gross state product.

SOURCES: NATIONAL ASSOCIATION OF MANUFACTURERS, THE ALUMINUM ASSOCIATION

IDAHO

Manufacturing's overall share of the Idaho gross state product in 2013 was 12.25%.



The **total sales of forest products** manufactured in the state were $2.6 billion in 2014, up 4.5% from $2.5 billion in 2013.

SOURCES: NATIONAL ASSOCIATION OF MANUFACTURERS, IDAHO FOREST PRODUCTS COMMISSION

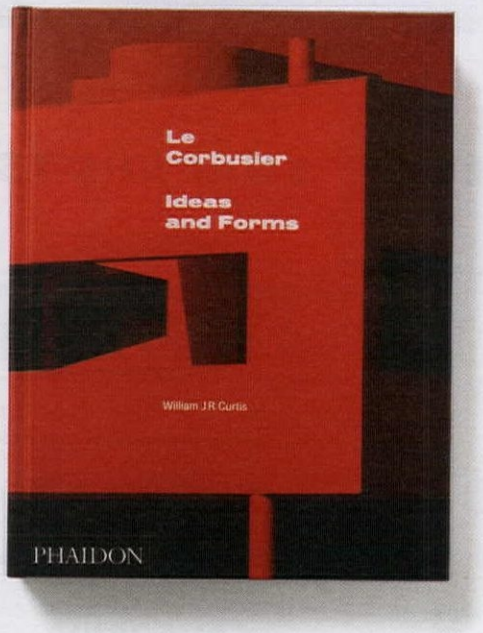
WASHINGTON

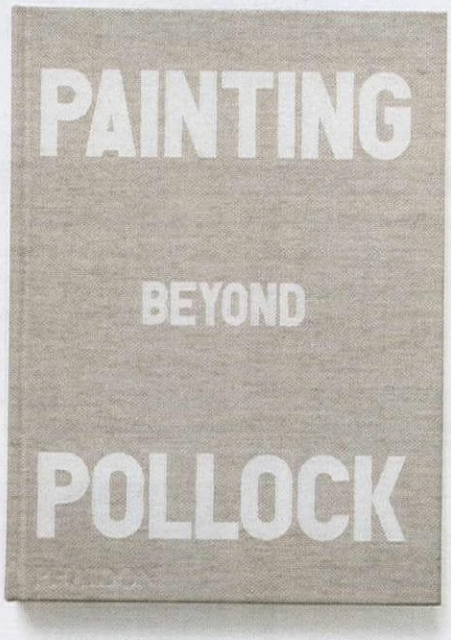
The lumber and wood products industries account for 7% of Washington State's employment.

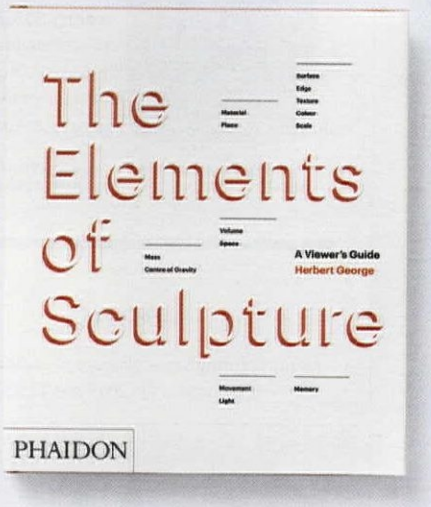


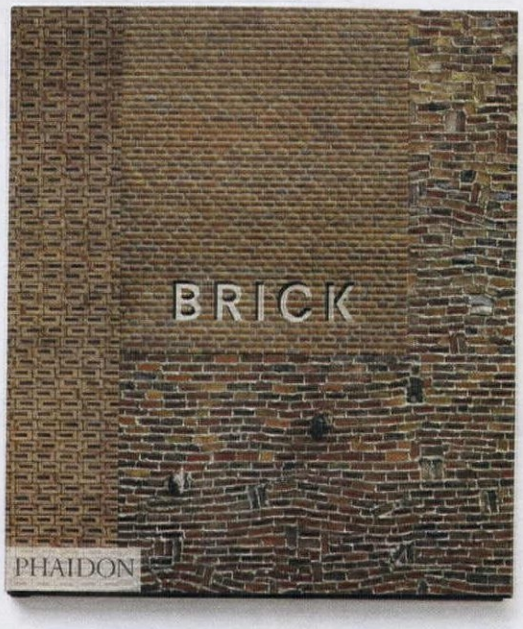
Washington's total manufacturing output for 2013 was $58.76 billion.

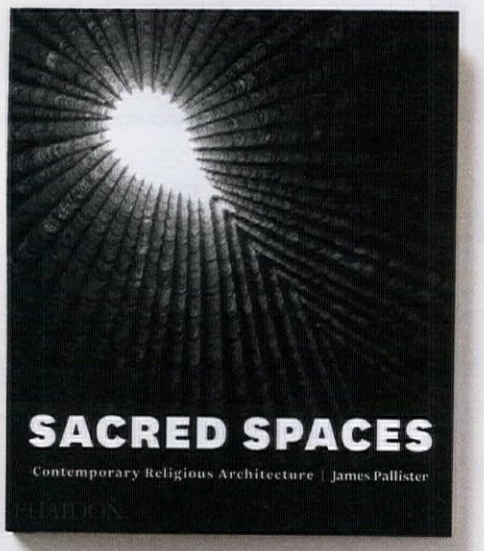
SOURCES: MANUFACTURERS' NEWS, NATIONAL ASSOCIATION OF MANUFACTURERS

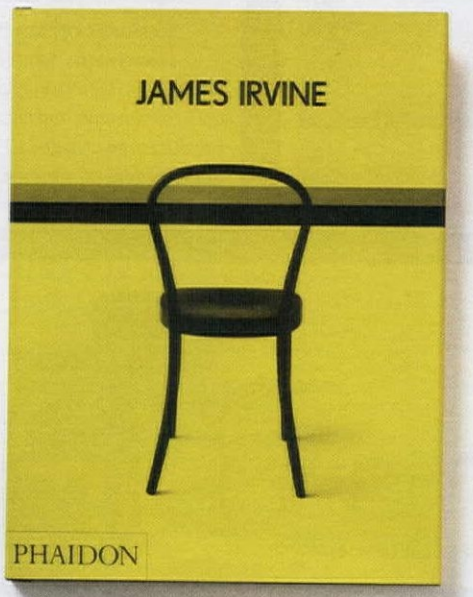












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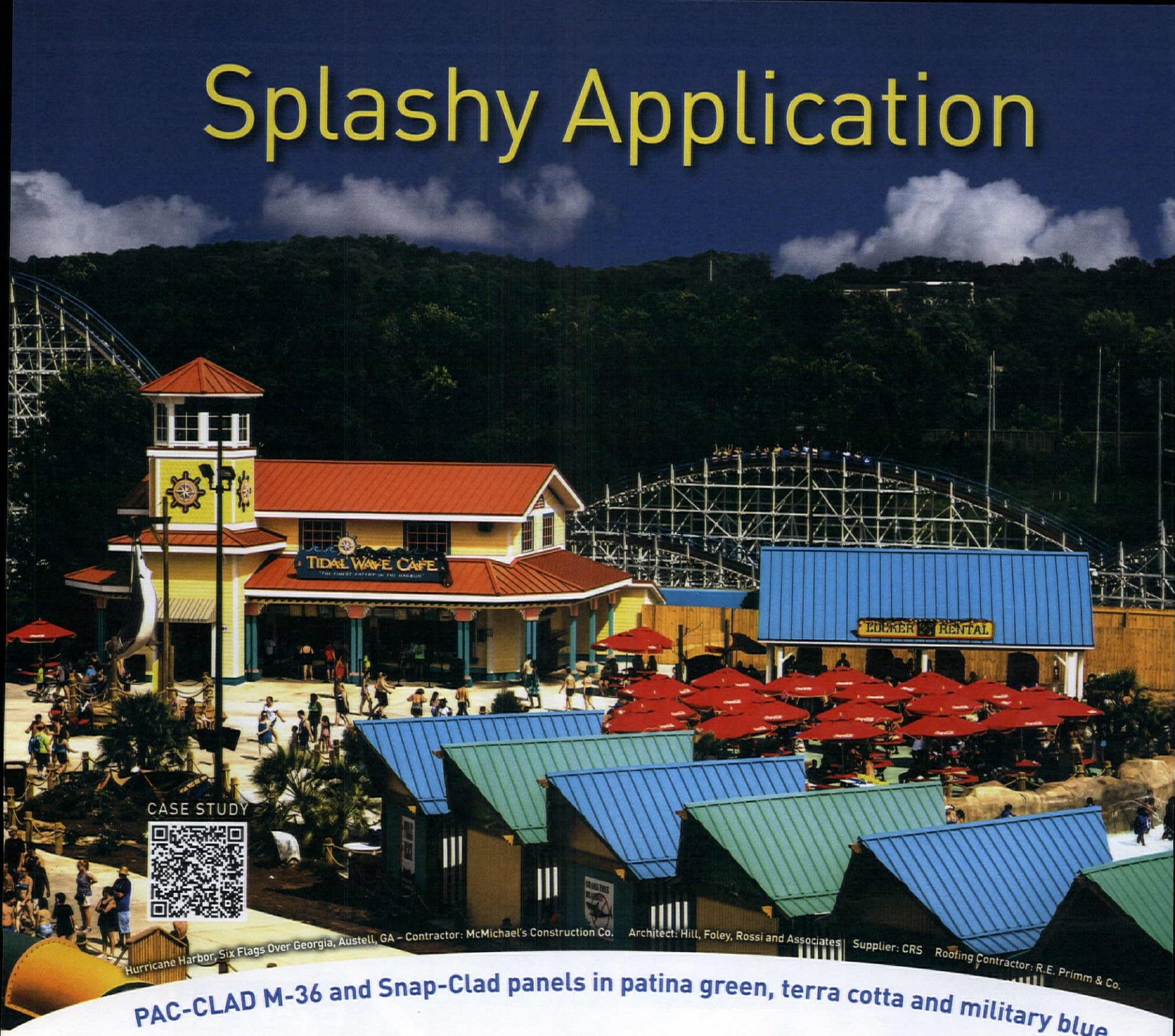
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SNAP 293

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CASE STUDY

Hurricane Harbor, Six Flags Over Georgia, Austell, GA – Contractor: McMichael's Construction Co. Architect: Hill, Foley, Rossi and Associates Supplier: CRS Roofing Contractor: R.E. Primm & Co.

PAC-CLAD M-36 and Snap-Clad panels in patina green, terra cotta and military blue

"All the roofs look beautiful, and are the shining crown for the Hurricane Harbor water park at Six Flags Over Georgia."

– Rick Primm, R.E. Primm & Company

Six Flags Over Georgia's new Hurricane Harbor water park near Atlanta features 22 buildings covered with Petersen PAC-CLAD .032 aluminum standing seam and exposed fastener roofing panels.

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We examine green residential design at a variety of scales.

Q&A **PAGE 51**
Actor and activist Ed Begley Jr. talks about building his new net zero home.

PRODUCTS **PAGE 53**
High-design LED fixtures from Milan's Euroluce lighting show in April.

CASE STUDY 1 **PAGE 56**
Snøhetta designs the carbon-neutral ZEB Pilot House in Norway.

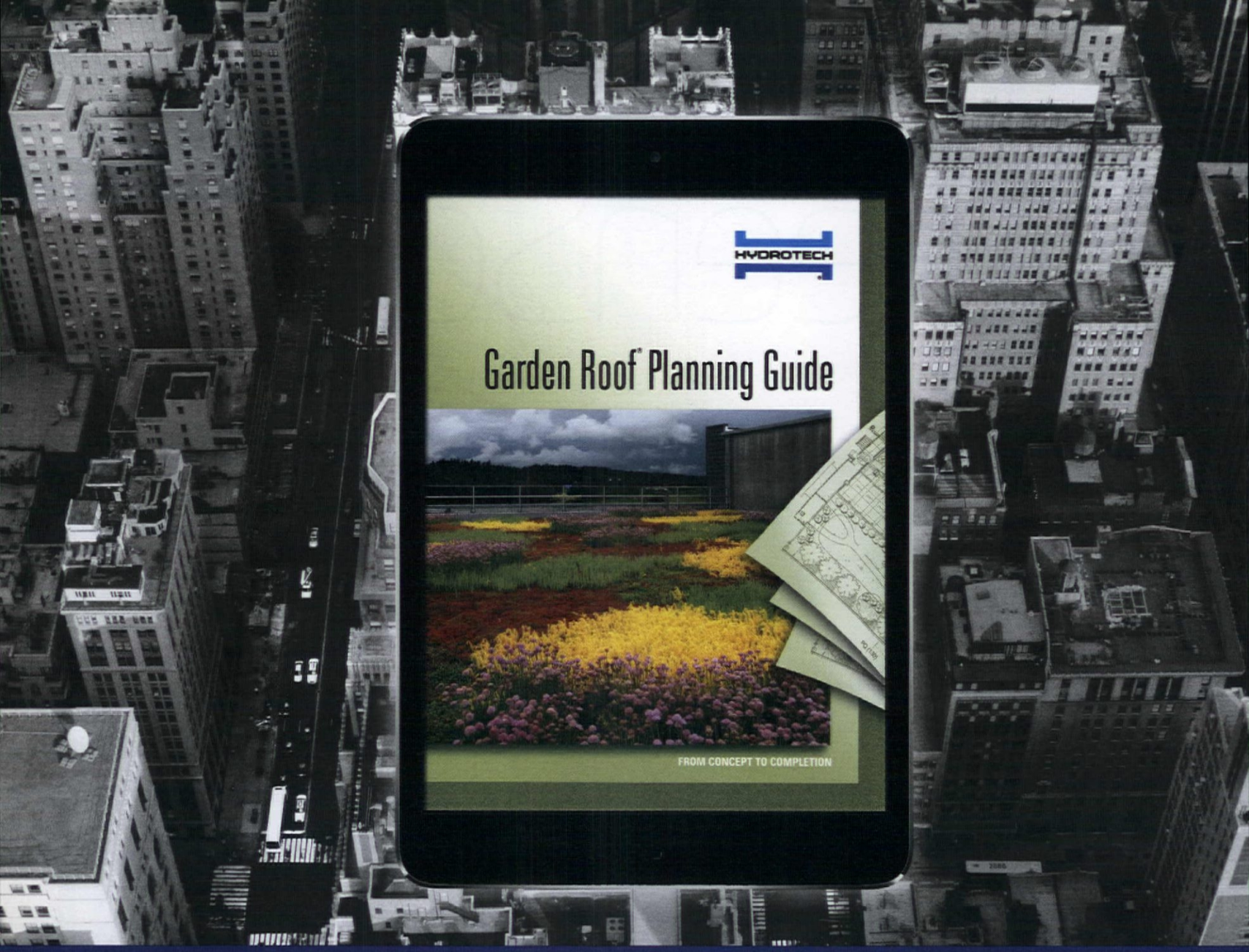
CASE STUDY 2 **PAGE 60**
Stefano Boeri's Vertical Forest is a new prototype for apartment buildings.

EARTHWATCH **PAGE 64**
A sculptural tower made with tire shingles rises in New Zealand.

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THE MAGAZINE OF SUSTAINABLE DESIGN

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SNAP 270

HYDROTECH

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IN THIS ISSUE

Home Goods

It is estimated that 40 percent to 48 percent of 2015's new nonresidential construction will be green. The prediction for residential projects, single-family homes in particular, however, is significantly lower. According to a report by the U.S. Green Building Council (USGBC), only about 15 percent of private residences now being built qualify as green. Here's the good news: that number is expected to soar over the next few years.

Credit that increase in part to the bottom line. Green home construction costs less than ever, with sustainable features adding incredible value. The USGBC reports that in many markets, certified green homes are selling more quickly and for more money than comparable nongreen homes.

The plummeting costs of solar power has been a key to its growing popularity. The Union of Concerned Scientists asserts that solar PV systems now adorn some 400,000 homes: 13 times more than just eight years ago. Tax credits, rebates, and other incentives—including greater ease of installation and better aesthetics—have contributed to its recent success.

Actor and longtime environmental activist Ed Begley Jr., the subject of this issue's Q&A, is no stranger to PV arrays. His Los Angeles home has featured one for decades, though he admits its installation was not very attractive. "I had it put in when I was a bachelor," he explains. "I wasn't concerned about how it looked, just that it worked."

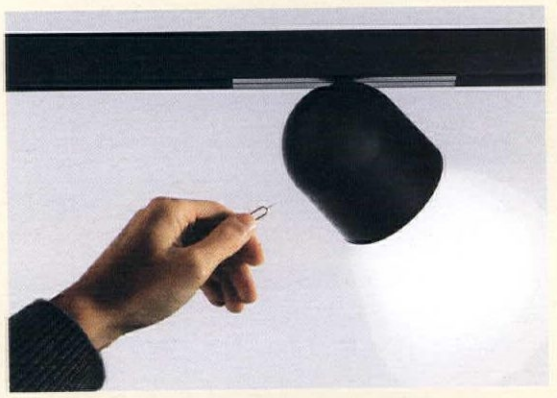
This summer, as Begley prepares to move with his wife and daughter into their new net zero home, the solar panels—barely visible, he says—are expected to power not only the house but an electric car as well.

The PV array on the deeply sloping roof of a house in Norway designed by New York- and Oslo-based architecture firm Snøhetta does the same. The bold exterior of the zero carbon prototype gives way to warm interiors, true to Snøhetta's view that green houses can be just as homey as traditional ones.

In Milan, architect Stefano Boeri takes green residential design to a much larger scale. His design for two multifamily towers in the city's rapidly redeveloping Porta Nuova neighborhood has high-rise residents cohabitating with actual trees. The radical project, called Vertical Forest, serves as a model for urban reforestation while also incorporating sustainable design strategies like photovoltaic panels.

For decades, space heating and cooling accounted for more than half of all residential energy consumption. Energy use for appliances, electronics, water heating, and lighting now accounts for 52 percent of total consumption (up from 42 percent in 1993). A key component of green homes is efficient lighting. Our products section offers a selection of new LED fixtures fresh from April's Euroluce lighting show in Milan.

Charity begins at home, and so too should sustainability. GS



Snøhetta designed a pilot house in Norway in partnership with the Research Center on Zero Emission Buildings (top). This issue's products section features highly efficient and beautifully designed LED fixtures from Milan's Euroluce lighting show (above).

MORE ONLINE

See more sustainable design features on **architecturalrecord.com**. For the *GreenSource* magazine archives, go to **greensourcemag.com**.

BY JOSEPHINE MINUTILLO

BRUCE DAMONTE (TOP); COURTESY DANESE (CENTER)

Inside cover illustration courtesy BOERI STUDIO



OLLE LUNDBERG.

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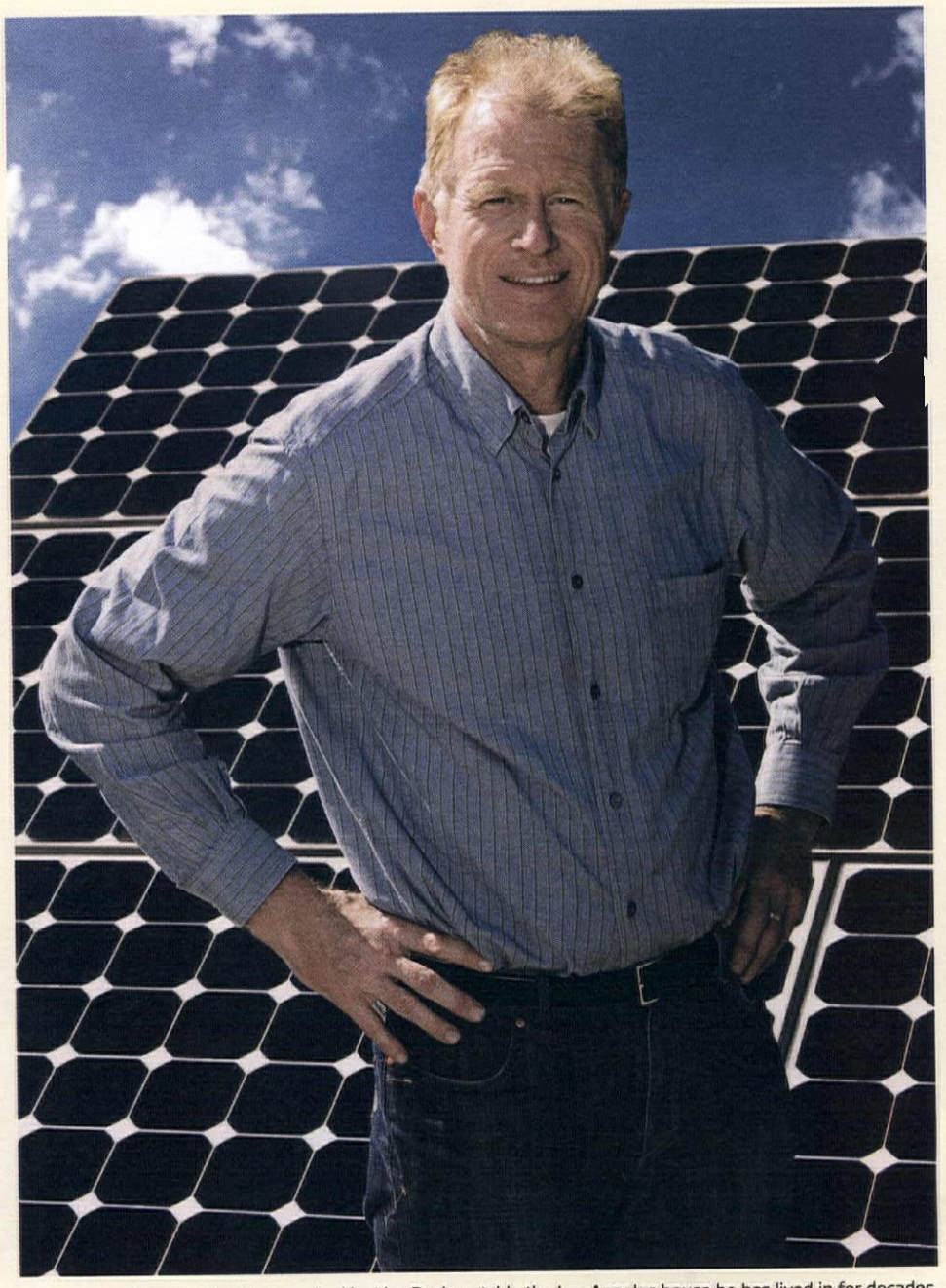
REAL. STRONG.

Q&A

Bringing Down the House

Ed Begley Jr. has been a familiar face for decades from his work in film and on television. He's equally known as a passionate environmentalist, even arriving to the 2015 Academy Awards by bike. As he and his family prepare to move into a new energy-efficient house in Los Angeles this summer, he spoke with the magazine about the decision to build from scratch.

BY JOSEPHINE MINUTILLO



Ed Begley Jr. photographed by Lisa Bevis outside the Los Angeles house he has lived in for decades.

GREENSOURCE: You've said you never wanted to move from your current home in Los Angeles. What convinced you to finally do so?
ED BEGLEY JR.: It was my wife really. She wore me down. Our old house is one I've lived in since 1988. I quickly set about making it as green as possible back then. At the time I met Rachelle, in 1993, I was pretty much done. I was never going to move again. Around 2010, after several profitable years when I was doing a series called *Living With Ed*, she said to me, 'It's not a question of money. What if I find a place that could provide more solar on the roof, a bigger vegetable garden, and more area to catch rainwater, and I could get more closets and bathrooms?' In her defense, we were sharing a bathroom with a teenager.

After finding that place and with plans to just do a renovation, what compelled you to tear the house down and build a new one? They call it mission creep. It became clear, because of my needs more than anything, that a remodel wouldn't work. There was a beautiful, massive oak tree to the south of the property that required putting the solar panels on a second level, away from its shade. But the house had water damage, termite damage, and damage to the foundation. It would never support a second story. Our contractor advised that it was better to start with a clean slate. I acquiesced on that only if we could recycle the existing home. Could we pull that old structure apart and make use of all the embedded carbon and materials? It took us a year to find people that would do that rather than bulldoze it.

Where did those elements end up going? The easy pickings—the doors, windows, appliances—were donated to Habitat for Humanity and sold at one of the organization's ReStores in the inner city. But the 2x4's in the home were not to current code; all the brick had mortar on it. Through a company called Industrial Recycling Services, we found a place in Mexico that would take all that, and they apparently made a church out of it. In the end, 96 percent of the house got recycled.

It's said that to build something new–even if it's the greenest building on the planet–is less energy efficient that renovating an existing structure. If we just put the old house in a landfill, that might be true. But the cost of running a home, over hundreds of years – in this case, since the new house has a steel structure—there's a point at which you come out ahead environmentally and in dollars and cents.

Will the new house be net zero? It is my belief and my goal that it will be net zero. I can also say quite safely that we'll get LEED Platinum status. There is an 8kW PV and solar thermal array, 12-inch-thick super-insulated walls, LED lighting, and a 10,000-gallon rainwater collection tank —which gets filled even in this drought. All of those efficiencies will easily make it net zero, and this includes charging an electric vehicle.

You chose the architect more for his design sensibilities than his experience with green buildings. Why? William Hefner is so brilliant aesthetically, and he said he was up to the task. The look of this house is going to redefine what it means to have an energy-efficient home. Most people don't even want to entertain the notion of doing one because they think it's going to be some George Jetson-looking thing.

What do you say to people who might think that as a celebrity you can afford to do this while they can't? The biggest challenge to be quite honest is the cost, even for me. But I'm building a metaphorical yacht with my project, you can do a lot of this stuff in a dinghy or a rowboat. GS

> "The look of this house is going to redefine what it means to have an energy-efficient home."
>
> ED BEGLEY JR.
> *Actor and Environmental Activist*



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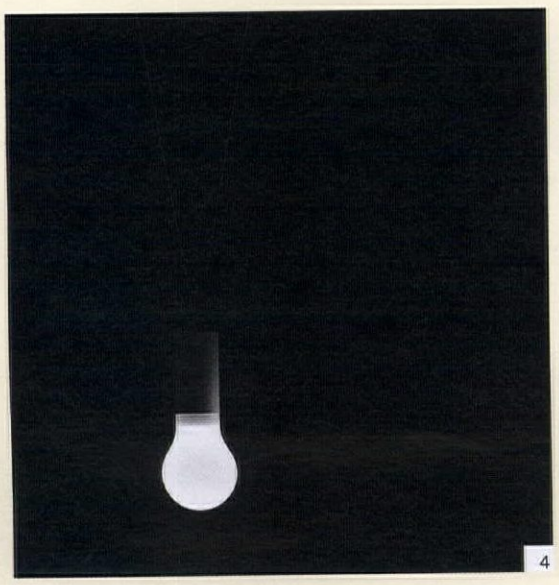
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1 Kurage

Foscarini
New York, NY
foscarini.com

A new ultralightweight table lamp, Kurage was designed by Luca Nichetto with the Japanese studio Nendo. Its name comes from the Japanese word for jellyfish, which the lamp resembles. Perched on four slim ash-wood legs is a diffuser made of *washi* paper. The LED light source rests on a ceramic support and casts a warm, suffused light thanks to the fine hand-made translucent shade. **SNAP #40**

2 Ginger

Marset
New York, NY
marset.com

Spanish lighting manufacturer Marset has expanded its Ginger collection of lamps to include a floor version with a movable carbon-fiber arm. Designed by Barcelona native Joan Gaspar, the system allows the suspended lampshade–made from a laminate of wood and paper and featuring an LED light source–to slide forward and backward. It is offered in two sizes to fit the needs of different spaces. **SNAP #41**

3 Skyline

Santa & Cole
Atlanta, GA
santacole.com

Skyline is a versatile outdoor lighting line and boundary marker that illuminates access points and pathways at various heights. Available as a bollard or a sconce, it is made of bent and painted sheet steel with anticorrosive protection. The painted-white inner reflector houses a 3000K, 10W LED. The heat sink is made of anodized extruded aluminium. Designed by Antoni Roselló. **SNAP #42**

4 Perfect Lovers

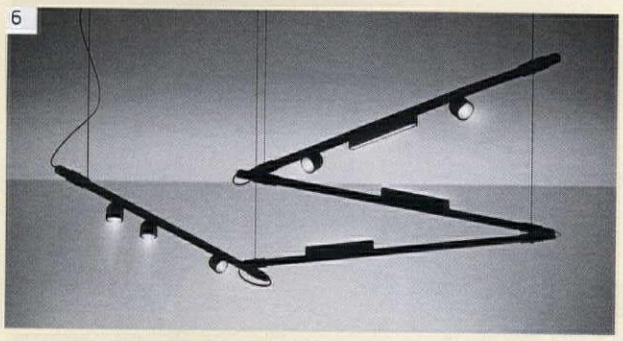
Davide Groppi
Piacenza, Italy
davidegroppi.com

Designed by company founder Davide Groppi, Perfect Lovers can give the illusion of a single bulb but is actually two LED bulbs connected with an ultrathin wire. The codependent design was inspired by the Dirac equation, which states that if two systems interact for a time and then separate, what happens to one continues to influence the other, no matter how far apart they are in miles or light-years. **SNAP #43**

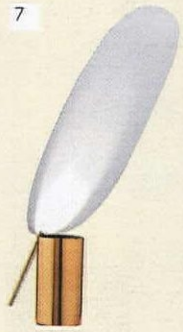
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5 Reverso Strip

Artemide
Hicksville, NY
artemide.com

Designed by Paris-based Arik Levy for Artemide, the Reverso Strip suspension lamp features a 40W LED light source within an interior opaline-glass diffuser. The exterior shade is available in transparent engraved glass or metallized rust; for the latter, a thin metal film is spread over the glass in a vacuum process. To make the amber version here, colored metal oxides are added to the ingredients of the glass mix. **SNAP #44**

6 Olmo

Danese
Milan, Italy
danesemilano.com

Olmo, a Giulio Iacchetti design, is a system based on a combination of simple optical and mechanical elements: a linear track module, a junction that is also a power connection, and three luminaires that offer various performance options. The suspension tracks can be either connected with each other or installed vertically or horizontally to ensure maximum mounting flexibility. The innovative circuit allows the system to support up to 130 watts with a single power point. The fixtures can be used for spot or diffused lighting. The spot has a controlled emission and is fitted with a junction allowing 360° rotation and 90° tilting. **SNAP #45**

7 Serena

Flos
New York, NY
flos.com

Designed by Patricia Urquiola for Flos, Serena is a sophisticated family of floor, table, wall, and suspension lamps. Made in refined materials and finishes, the lamps are characterized by a round or leaf-shaped diffuser whose LED light source evokes the pistil of a flower. The reflector is offered in a gold, copper, polished aluminum, matte white, and wood finish, and as a dichroic filter. The lamp body comes in matte white, matte black, and copper. **SNAP #46**

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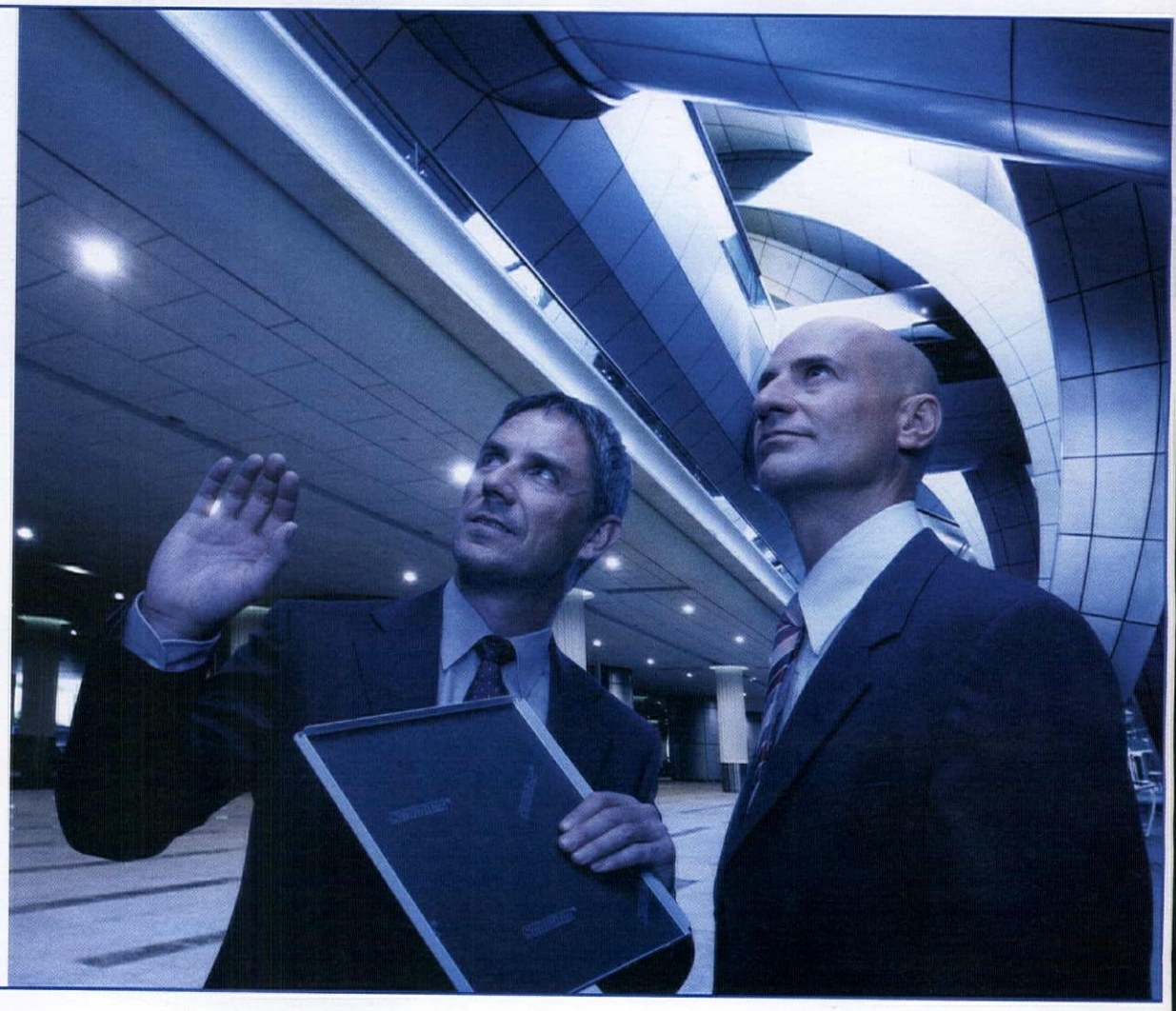
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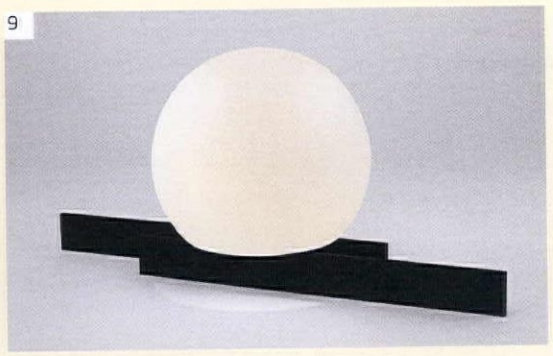
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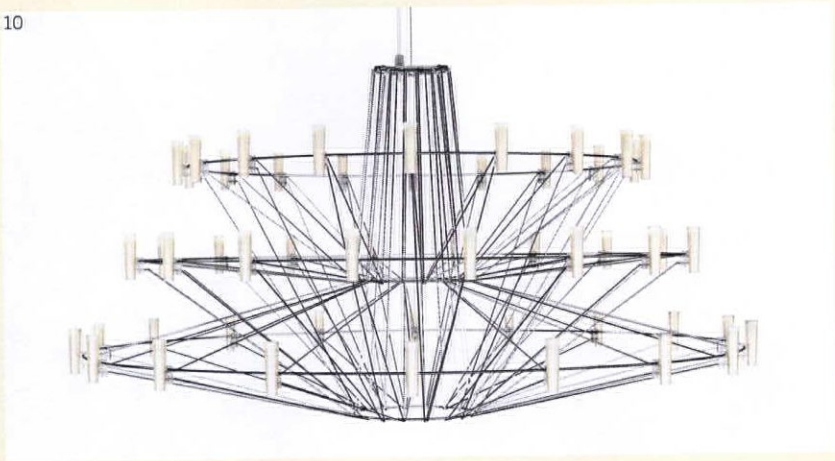
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8 Siptel

FontanaArte
New York, NY
fontanaarte.com
Designed by Giulio Iacchetti, the Siptel floor and table lamp reworks the archetype of stemmed models through a simple magnetic system. The LED light source slides along the entire length of the fixture. Exploiting magnetic properties, the lamp head is completely without constraints (unlike traditional variable-height lamps whose blocking mechanism depends on unsightly handles or mechanical joints). At the base, two pegs—one of which also slides, thanks to the same magnetic mechanism—allow any excess cable to be wound up, keeping it taut and safely out of the way. 3000K / 1000Lm / CRI >80.
SNAP #47

9 Somewhere in the Middle

Michael Anastassiades
London, England
michaelanastassiades.com
London-based designer Michael Anastassiades presented a breathtaking new collection of minimalist lighting at Euroluce. Somewhere in the Middle, which can be used as a table or floor lamp, is available in several finishes; the black patinated base with mouthblown opaline sphere is shown. Other finish options are satin brass and satin nickel. Black silk braided flex, inline switch. **SNAP #48**

10 Coppelia

moooi
New York, NY
moooi.com
The Coppelia suspension lamp for Dutch furniture and lighting line moooi was designed by Helsinki-based Japanese designer Arihiro Miyake. Its striking electrolytic polished stainless-steel frame comprises three rings with a total of 54 LED tubes in polycarbonate shades. The transparent cable is 13 feet long; longer ones are available upon request. 2700K (warm white, comparable to incandescent) CRI_Ra > 80.
SNAP #49



CASE STUDY 01

Clean Living

Snøhetta's bold design for a prototype house in Norway generates more energy than it uses, while its cozy interiors and natural finishes adapt to any lifestyle.

BY CHRIS FOGES

With its light-filled rooms, warm natural materials, pool, and free heat and power, the ZEB Pilot House in Larkvik, Norway, offers everything a family might want in a home. Prospective buyers will have to wait a while, however, as the building is currently being used to showcase an ambitious approach to sustainable design developed by architect Snøhetta and its partners in the Research Center on Zero Emission Buildings (ZEB).

The prototype house is noteworthy not for its use of exotic new materials or technologies but for its focus on the next great challenge of sustainable design: embodied energy. As efforts to reduce in-use energy consumption produce rapid improvements in performance—all new European buildings should be nearly zero energy by 2020—the greenhouse gas emissions from the production of building materials account for a larger proportion of a building's whole-life carbon cost. Combining excellent thermal performance and an extensive rooftop array of photovoltaic and solar thermal panels, the pilot house generates more energy than it consumes, compensating for its embodied energy over a 60-year lifespan.

The ZEB team, composed of independent researchers, universities, and construction-product manufacturers, was established to explore how zero-energy buildings might meet market demands. For the pilot house, two subsidiaries of the construction materials giant Saint-Gobain acted as clients; the house is also demonstrating their Multi-Comfort concept, whose criteria include good daylight and acoustics and a general sense of well-being.

Further parameters set by the design team added complexity but "gave us useful things to play against," says lead architect Kristian Edwards. The designers wanted to use widely available materials to show ordinary contractors they could adopt the approach. While this suggested a conventional wood frame, another self-imposed condition—that when it was no longer needed, the house could be transported in one piece to the next site—led them to choose a glulam structure despite its higher embodied energy.

Such trade-offs demanded an iterative, collaborative design process. Embodied energy was recalculated after each alteration,



BRUCE DAMONTE

The house has a characteristic tilt toward the southeast and a sloping roof surface clad with solar panels and collectors.



TEAM

ARCHITECT Snøhetta

Engineer Moelven/ Brødrene Dahl

Consultants Sintef (sustainability); Lighthouse (lighting)

General Contractor Espen Staer

Client Optimera and Brødrene Dahl (Saint Gobain)

SOURCES

Structural System Moelven

Masonry Recycled

often precipitating further revisions to compensate for any increase. Data incorporated into a comprehensive BIM model were drawn from the team's own resources and from Tally, a Revit application that quantifies the environmental impact of materials for whole-building analysis.

The use of predominantly natural materials satisfied both the low-carbon objective and the desire to make a homey, culturally familiar environment. Toxicity and maintenance obligations were also taken into account. The spruce-clad envelope comprises double stud walls with fiberglass insulation and an unbroken central cavity, giving a thermal performance that exceeds Passivhaus standards. "We also wanted to achieve a certain daylight factor so we increased the window area in relation to the current building code and compensated with additional insulation in the walls to give a U-value of 0.11," says Edwards. "Lighting a candle for an hour or two is enough to warm the house."

Nevertheless, the building is equipped with rather more potent energy sources. Its monopitch roof, set at 19 degrees and facing south-east, is occupied by 172 square feet of water-heating solar collectors and a 1,615-square-foot photovoltaic array providing 19,200kWh annually: enough to run the house and an electric car. Geothermal wells provide additional water heating, and heat is recovered from wastewater and exhaust air.

With no on-site storage, the house is connected to the national grid, exporting and importing energy as required. Although renewable sources now account for 90 percent of electricity generation in Norway, self-sufficiency offers the advantage of certainty, according to Edwards. The Norwegian grid links to those of neighboring countries, "so our clean energy is mixed up with dirty energy," he says. "If you know that the photovoltaic panels' embodied energy is accounted for, you can use energy with a clear conscience."

The building's distinctive tilt also creates spatial interest within. Space heating is energy-efficient, so the designers were "free to explore volume in a much more emphatic way," Edwards points out. Upper-level bedrooms enjoy high sloping ceilings with tall north-facing windows, while the ground floor is configured around a top-lit double-height atrium. A wall of recycled brick rising through the space provides thermal mass, helping ensure stable temperatures.

Textured brickwork also appears on the back wall of an outdoor courtyard, set into the plan so that it is enclosed on three sides by the house and open on the fourth to the garden, pool, and sauna. The side walls are given a rustic feel by a cladding of loose-stacked logs, which also serve as fuel for an open fire outdoors—a feature that the architects considered an essential part of a Norwegian home, but one that could not be accommodated within the airtight building.

With its large windows and sliding doors, the courtyard also helps mitigate the sense of disconnection from the outdoors that can occur in tightly sealed buildings, as does a ventilation strategy that relies on a mechanical system with heat recovery in winter but provides operable windows for summer use.

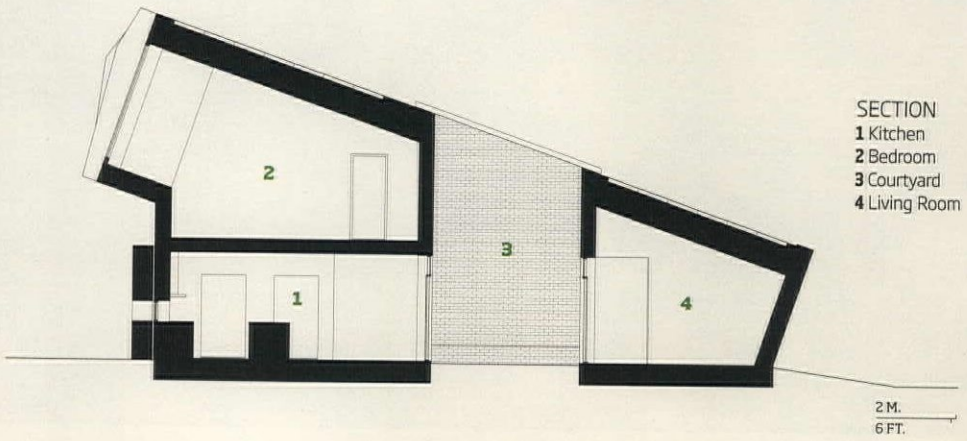
In order to test various scenarios, the pilot house comes with a greater variety of equipment than a market-sale version would require—including radiators, under-floor heating, and prewarmed air intake—and at 2,368 square feet, it is larger than a typical family might need. Moreover, as its form and the orientation of windows are site-specific, the prototype house cannot simply be copied elsewhere. Its value, therefore, is not as a blueprint but as an example of what is possible. "The project shows we can achieve a zero-carbon house that does not require residents to have a special interest in sustainability," says Edwards. "I think most people could imagine themselves living here because the house supports their lifestyle, so they don't have to adapt their lifestyle to the house." GS



Set into the plan is an outdoor courtyard enclosed on three sides by the house and open on the fourth to the garden, pool, and sauna.



The use of natural materials satisfied both the low-carbon objective and the desire to make a homey, culturally familiar environment.



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CASE STUDY 02

Out of the Woods

Architect Stefano Boeri brings the forest to the city with tree-clad towers for a new residential development in Milan.

BY JOSEPHINE MINUTILLO

"The idea for Vertical Forest was born in Dubai," recalls Stefano Boeri. On a 2007 visit there, the Milan-based architect reflected on the frenetic growth of the Middle Eastern metropolis—home to dozens of slick skyscrapers in the heart of the desert. "At about the same time," he adds, "a Harvard study revealed that 94 percent of tall buildings constructed after 2000 were clad in glass." When Boeri returned to Italy and accepted an opportunity to design two multifamily residential buildings in a redeveloping area of his home city, he began to imagine a pair of biological towers, as he refers to them. The architect decided to forgo the materials commonly used for building surfaces, instead letting the changing colors of leaves enliven the facades.

Boeri's concept, however, goes far beyond surfaces. Vertical Forest creates an urban ecosystem with two towers—one with 19 floors, the other with 27. Both feature generously planted balconies whose contents span 60 species of trees and 94 of plants. To be exact, there are 480 large and medium trees, 300 small trees, 5,000 shrubs, and 11,000 perennial and covering plants. According to the architect, the combined 16,000 square feet of building surface houses the equivalent of 215,000 square feet of forest and undergrowth.

By incorporating such a diversity of plantings, the project helps create a microclimate which, the architect claims, increases humidity, absorbs carbon dioxide and noxious particles, produces oxygen, and protects residents from solar radiation and noise.

The urban ecosystem promotes biodiversity, too. The towers are not only home to many species of trees and plants; they're also expected to attract hundreds of kinds of birds, butterflies, and insects.

The choice of species and their distribution on the facades resulted from three years of research the architects carried out alongside botanists and ethologists, who study animal behavior. And the plants were cultivated in a nursery to prepare them for the conditions their future habitat would present.

In the fall, when residents began moving in, the greenery was already in place. The planting allocation allows for two trees per occupant, along with eight shrubs and 40 plants. (Many of the buildings' 113 apartments—a variety of one-, two-, and three-bedroom units—have more than one balcony.) The management of the



JOSEPHINE MINUTILLO (RIGHT); PAOLO ROSSELLI (OPPOSITE)

Vertical Forest consists of two towers, 262 and 367 feet high, within a redeveloped area of Milan.



TEAM

ARCHITECT Boeri Studio: Stefano Boeri, Gianandrea Barreca, Giovanni La Varra

Engineer Arup Italia (structural)

Consultants Deerns (facilities); Land (landscape); Alpina (infrastructure)

Client Hines Italia

containers in which the plants grow—which measure over 5,500 linear feet in total—is the responsibility of the condominium. Larger plantings are secured with thin vertical cables.

Just as the towers were opening their doors to residents, the project received the biannual International Highrise Award, sponsored by the German Architecture Museum in Frankfurt. The jury, which reviewed over 800 high-rise buildings constructed within the previous two years, cited Vertical Forest as a symbiosis between architecture and nature, calling it "a radical and brave idea for the cities of tomorrow" as well as "a model for developing areas of high-population density in other European countries."

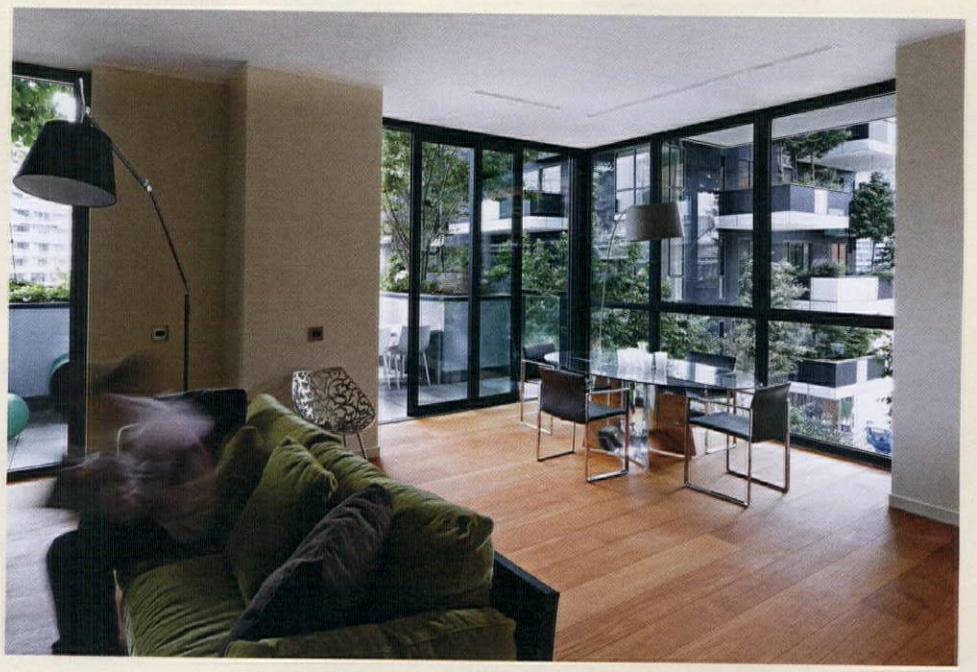
The project also includes more traditional sustainable design strategies. Geothermal pumps provide heating, and solar energy is harvested through a 26kW photovoltaic array.

As an extension of Boeri's aim to promote urban ecosystems—and of Milan Expo 2015, whose theme is Feeding the Planet, Energy for Life—American land artist Agnes Denes created *Wheatfield* at the base of the towers. (It revisits a work she created for New York City over 30 years ago.) The 12-acre site, a future public park, invites locals to sow, tend, maintain, and harvest wheat crops for the duration of the project, which began in February and will last through October.

For Boeri, Vertical Forest is an invitation to learn how to cohabitate with trees and experience their extraordinary capacity to grow and regenerate—as he puts it, "even in an urban environment and even up high." GS



The building's plants and trees were cultivated in a nursery, preparing them for the conditions they would face on the balconies.



The airy apartments capitalize on the striking views the verdant balconies provide.

FLOOR PLAN
1 One-bedroom unit
2 Two-bedroom unit
3 Three-bedroom unit
4 Terrace

the Brawn beneath the Beauty

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Belly of the Beast photograph by Samuel Hartnett



EARTHWATCH

You're enjoying a leisurely afternoon stroll through an idyllic field when you see it looming: a 40-foot-tall steeple composed entirely of shredded tires. Setting aside your trepidation, you step closer and realize the fortress can be entered. Should you? Yes. Now you're ensconced in a roomy enclave painted an extravagant blood red. Steel members crisscross the walls. A fireplace invites you to warm your hands. As smoke fills the space, you start to wonder what you've gotten yourself into (*gulp*). Is it Stonehenge's fashionable young nephew? The Wicker Man's hippie girlfriend? It's captivating, slightly uncanny, and wholly immersive...but is it art?

Indeed it is. Designed by Matt Ritani and Declan Burn, architectural students at Victoria University of Wellington, *Belly of the Beast* won the Brick Bay Folly 2015 competition to create a work of art for the Brick Bay Sculpture Trail in Matakana, New Zealand. Since opening, the structure has yielded plenty of oddball interpretations. "We've been asked if it's Satan's Christmas tree, or a hairy hut," recall the designers, who prefer to respond collectively. They never intended to be so cryptic. "Sculpture often has to go past its 'objectness' to become a participatory work." *Belly of the Beast* insists you be part of its architecture. In a sense, you become dinner.

So why did Burn and Ritani decide to make shingles from tires? "They're a cheap and plentiful resource," they say, "and using what you already have is a major tenet of sustainability." In fact, once the exhibition's over, the shingles will be shredded into rubber chip and donated to an equestrian club, to serve as a comfortable surface for horses in dressage arenas. According to Ritani and Burn, "At the moment, architects aren't providing enough sustainability leadership. We need to be activists in a pragmatic, effective, and political way." GS

BY DEREK DE KOFF

CRITICAL POINT



MATAKANA, NEW ZEALAND
An hour's drive north of Auckland, the Brick Bay Sculpture Trail features *Belly of the Beast* along with more than 45 works by leading New Zealand artists.

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Adapting to New Environs

As Passive House certification gains ground in the United States, the standards are modified for North America's diverse climate conditions. BY MICHAEL COCKRAM





PHOTOGRAPHY: © JEREMY BITTERMANN



THE PASSIVE HOUSE concept for ultra-low-energy buildings first developed in the United States during the 1970s energy crisis, only to be adopted and refined into a codified certification system in Germany after funding in this country dried up. But, Passive House has reemerged in the U.S., with use of the certification system steadily gaining ground over the last decade. Currently, there are more than 140 U.S. projects that have met the rigorous German-born standards. Satisfying the stringent criteria requires airtight, superinsulated envelopes that are shaped by ambitious performance goals.

Growing interest in Passive House certification, applicable to new construction, renovation, and a diversity of building types, helped prompt the U.S. Department of Energy (DOE) to form a partnership in 2012 with the Passive House Institute U.S. (PHIUS), the nonprofit organization responsible for certifying Passive House projects in this country. The DOE also funded a study to reshape the existing standards and adapt them to the varied U.S. climate. The result of the study is the PHIUS+ 2015 standards, just released in March.

The original standards made sense in the relatively consistent maritime climate of north-central Europe, says Katrin Klingenberg, executive director of PHIUS. "But in the context of the extreme climates of the U.S., designers were sometimes forced to choose strategies that had unintended consequences," such as overheating from too much glazing, she explains. The new standards also represent PHIUS's further divergence from the criteria set by its parent organization, the Passivhaus Institute (PHI) in Darmstadt, Germany. The two broke contractual ties in 2011.

The original Passive House standards, devised to minimize energy loads, were balanced on just three pillars: a space-conditioning limit of 4.75 Btu's per square foot per year; a source energy cap (usually the total electrical demand) of 38,000 Btu's per square foot per year; and an airtight envelope criterion of no more than 0.6 air changes per hour at 50 pascals of pressure. The revamped standards maintain these three pillars but expand them.

While it is too early to say what the impact of the new North American requirements will be, the German standards have made their mark on a variety of projects in the U.S., including houses, apartment buildings, and even a laboratory. One example is In Situ Architecture's Skidmore Passivhaus in Portland, Oregon. Completed in 2013, the single-family house, made up of two shed-roofed cedar-clad volumes, met the original benchmarks by creating a superinsulated shell. It consists of a hefty frame of 2-by-8 wood studs that is filled with cellulose insulation and wrapped with 3 inches of rigid insulation. And since the Pacific Northwest receives a relatively small amount of annual solar radiation—much like Germany—the architect was able to open the house's living areas to the

SKIDMORE PASSIVHAUS
In Situ Architecture's house in Portland, Oregon, is clad in cedar rainscreen panels over a well-insulated wood frame. Glazing on the north-facing street facade (opposite) is limited, while it is more generous on the south-facing facade (above), in order to capture desirable solar gain. Motorized external shades can be deployed to prevent overheating.



sun with copious south-facing glazing. Motorized external shades help prevent overheating.

The succinct set of requirements in the German standards were extremely appealing to In Situ's principal, Jeff Stern, who is concerned that the new standards will add complexity and make certification more cumbersome. "One of the things that was attractive about Passive House was the clarity and simplicity of the criteria," he says.

One illustration of the intricacies of the overhauled standards is an expanded set of targets for heating and cooling. Instead of setting just an annual space-conditioning limit, the new Passive House system also takes into account peak loads (often referred to as design temperatures), to help optimize the envelope and the building systems. In place of one uniform cap for both heating and cooling, the new standards establish four thresholds: annual heating loads, annual cooling loads, peak heating loads, and peak cooling loads, each specific to the building's location.

Some architects working with the Passive House system have already been considering such factors. Peak loads were extremely important for the Santa Fe, New Mexico, firm NEEDBASED when it designed a recently completed house in a senior cohousing community in Taos, where design temperatures are almost the same as Chicago's.

To cope with these extremes and create a house that exceeded Passive House requirements by 30 percent, Jonah Stanford, the firm's principal designer, shaped the three-bedroom, 1,750-square-foot house to take advantage of the plentiful desert sun during the winter but be protected from potential overheating during the summer. The Southwest Modern–style dwelling has flat roofs and deep overhangs to shield its south-facing triple-glazed windows.

It also has a high-efficiency air-to-air heat exchanger—standard equipment on Passive House projects—which adds fresh air to the tightly sealed building and recovers thermal energy. There are two types of such heat exchangers. One is a heat recovery ventilator



TAOS HOUSE
This desert house (from top) has overhangs that protect it from unwanted heat gain. Architects from NEEDBASED supported the projecting elements with steel portal structures that do not penetrate the envelope, helping prevent thermal bridging.



demand with renewables," Stanford says. The Taos house required only nine PV panels—a 1.7-kilowatt system.

The report leading to the new standards also emphasized the need for making Passive House more cost-effective—too often, projects invested in elements that had limited payback, according to the study. Toward that end, the study's authors, including consulting and research group Building Science Corporation, and PHIUS, used software developed by the National Renewable Energy Laboratory (NREL) to evaluate the cost-effectiveness for an array of variables, from window types to building orientation. The researchers also used the NREL tool to generate the four heating and cooling targets (for peak demands and annual loads) for 100 locations in North America. This function is being incorporated into the new design and verification tool Wärme und Feuchte Instationär (WUFI) Passive. It will help designers balance heating and cooling strategies for the most cost-effective design. The software is free.

This new analytical tool could have been useful for the architects from Pittsburgh-based Thoughtful Balance when they began working on the conversion of a 1922 YMCA building into 84 units of affordable housing in McKeesport, Pennsylvania, for those at risk of homelessness. Their client was stunned by the projected cost of HVAC upgrades and utility bills. So, in the absence of the new cost-analysis software, the designers commissioned an engineer's report, which showed that Passive House strategies could reduce energy bills by as much as two thirds.

The renovation, completed last year, included adding 7 inches of closed-cell foam insulation on the inside of the brick walls. The approach produced high R-values (about 6.5 per inch) and preserved the classical facade. It was also cost-neutral when factoring in the savings of avoiding elaborate mechanical systems, according to project architect Laura Nettleton. However, the renovation demonstrates the challenges of certifying a historic structure without substantial invasive modification to seal its envelope. The building missed its blower-door-test benchmark for airtightness and therefore didn't achieve certification.

New construction projects may not have to deal with existing-envelope problems, but they often present substantial programmatic challenges. This is especially true for certain building types such as laboratories, which typically consume huge amounts of energy. Last year, the University of Chicago's Warren Woods Ecological Field Station—located east of Chicago in Berrien County, Michigan—became the first Passive House–certified laboratory in the U.S. Because there were already several Passive House labs in Europe, the designers, Belfast, Maine–based GO Logic, elected to certify the building through PHI in Germany.

GO Logic configured the building to take advantage of the heat generated by the equipment-heavy lab, which is located in the shaded northwest corner of the 2,100-square-foot building. They then



MCKEESPORT DOWNTOWN HOUSING
In their conversion into housing of a 1920s YMCA building in McKeesport, Pennsylvania, architects from Thoughtful Balance specified 7 inches of closed-cell foam insulation for the inside of the building's brick walls, helping preserve the historic facade.

(HRV), which, in winter, passes heat from the exiting interior air to the incoming fresh air. In summer, it recovers coolness from the exiting air. Another type is an energy recovery ventilator (ERV). It performs the same function as an HRV but also exchanges humidity. ERVs are commonly used in humid climates, where moisture needs to be removed for comfort. But the Taos house has an ERV because the winter air can be uncomfortably dry. It recovers indoor moisture and adds it to the incoming air.

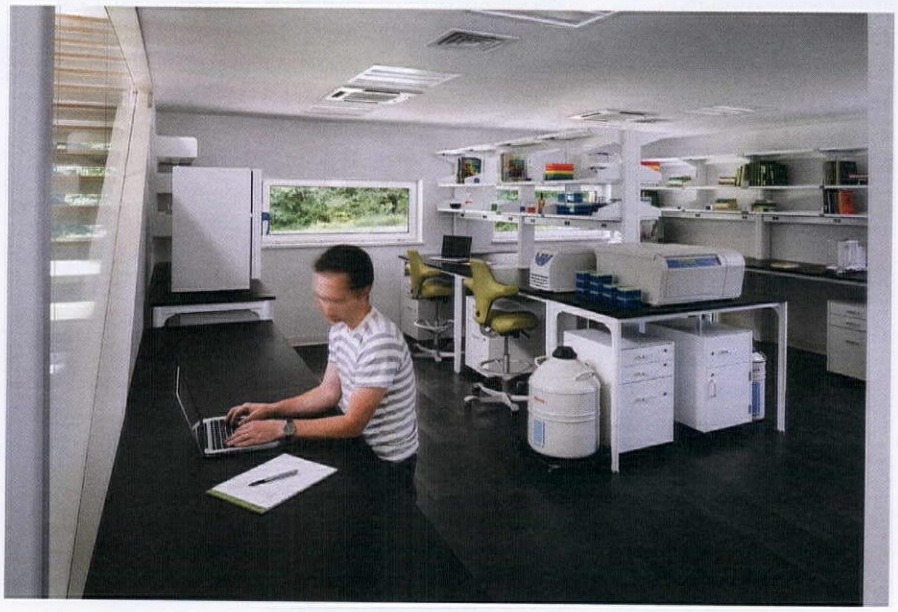
The Taos project was designed to surpass Passive House standards because it also targeted Net Zero Energy (NZE) status, which was achieved by generating an equivalent of the home's annual electrical needs on-site with grid-connected photovoltaics (PVs). PHIUS recently instituted an add-on certification for NZE, and one goal of the DOE-funded study was to adjust the Passive House criteria to create a path to NZE. "It makes sense to use Passive House to take efficiency as far as possible while considering economic payback, then generate the remaining

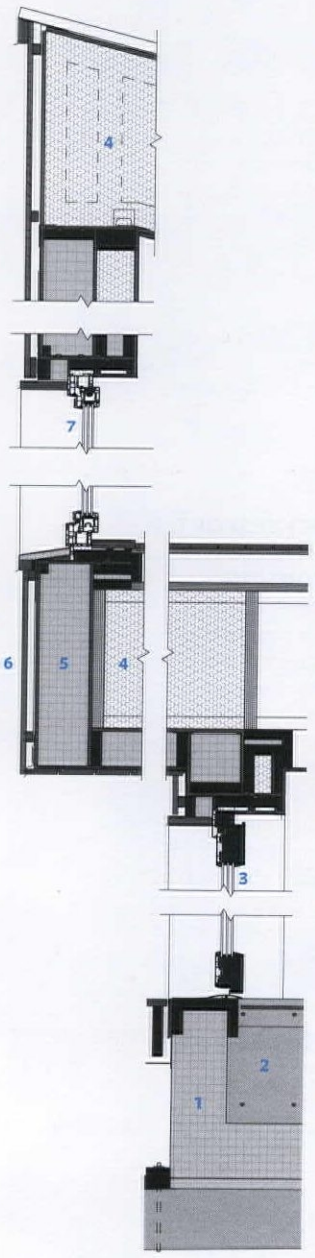
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CONTINUING EDUCATION: PASSIVE HOUSE STANDARDS

FROM ARCHITECTURAL RECORD







WARREN WOODS
WALL SECTION DETAIL

0 3 FT.
1 M.

1 EXPANDED POLYSTYRENE
2 CONCRETE SLAB
3 TRIPLE-GLAZED, ALUMINUM-CLAD DOOR
4 WOOD TRUSS WITH CELLULOSE INSULATION
5 STRUCTURAL INSULATED PANEL
6 CEDAR RAINSCREEN
7 TRIPLE-GLAZED, ALUMINUM-CLAD UNPLASTICIZED VINYL WINDOWS

designed the ductwork to move excess heat to the rest of the facility in winter. Night-flush ventilation and an air-to-air heat pump cool the building in the summer.

Notably, PHI adjusts the requirements for source-energy loads to compensate for special building types like labs. But it still requires that the envelope perform up to the standard criteria should the use of the building change in the future.

To meet these requirements, GO Logic developed a patented frost-protected slab-on-grade system that utilizes an L-shaped rigid-insulation perimeter component. The element is made from 8-inch-thick expanded polystyrene (EPS) with a high level of compressive strength. The continuous L-shape makes an airtight joint at the slab edge. A layer of EPS under the slab creates a container and permanent formwork that is filled with 14 inches of gravel and then topped with a slab. The insulated slab-and-gravel-fill assembly makes a deep thermal mass that is especially beneficial in keeping the building cool, according to project architect Timothy Lock. The wall assembly includes both structural insulated panels (SIPs) and interior 2-by-6 framing filled with cellulose insulation; the roof structure consists of 30-inch-deep trusses filled with cellulose insulation.

The firm advocates designing beyond the standard. For example, there was no Passive House requirement for distributing the excess heat from the lab to the rest of the facility. But with the help of the project's mechanical engineer, the architects developed a system for doing so, knowing it would improve the building's performance.

So, with savvy designers producing good buildings using the old standards, why make a change? PHIUS's Katrin Klingenberg believes that the new standards will ensure the optimization of both costs and efficiency. "There's only so much capital available," she says. "But if we're going to deal with climate change, we'll need to make new projects more efficient and bring existing buildings to a similarly ambitious standard." ■

WARREN WOODS Architects from GO Logic designed a field station (above) for the University of Chicago, in Berrien County, Michigan, so that its laboratory (left) serves as the heat engine for the rest of the building. The excess heat produced by the research equipment is captured and ducted to the other rooms.

Continuing Education

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Learning Objectives

1 Describe the goals of the Passive House certification system.
2 Outline the arguments for adapting the certification system for North America.
3 Outline the original certification criteria and explain how the new criteria are different.
4 Discuss the challenges faced by several design teams using the original Passive House system in extreme climates and explain how these challenges were overcome.

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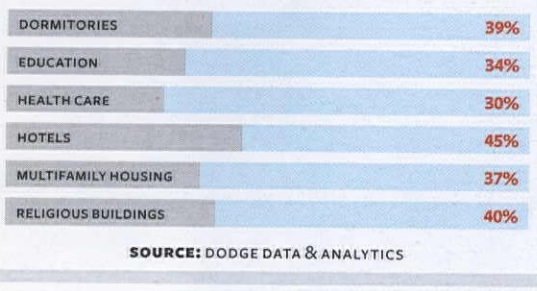
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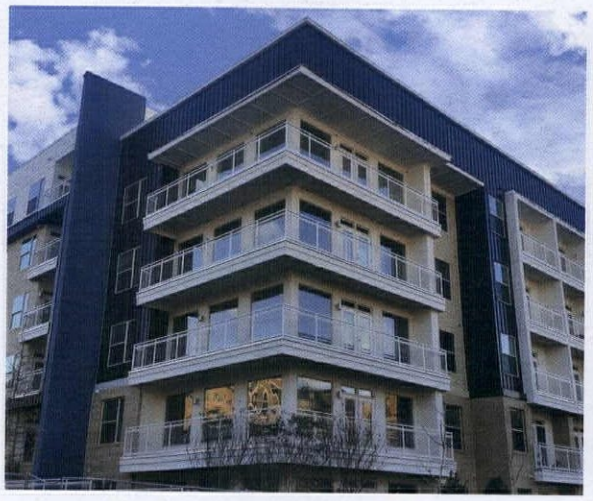
SNAPSHOT

AIR BARRIERS

SPEC RATE BY BUILDING TYPE (MAY 2014 TO APRIL 2015)



SOURCE: DODGE DATA & ANALYTICS

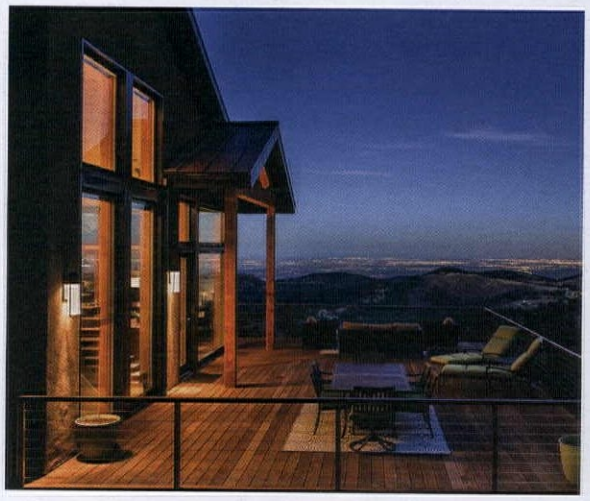


BEAUTY, FROM THE OUTSIDE IN The Steel Works housing complex in Atlanta utilizes a creative cladding scheme.

1 BUILDING TECHNOLOGIES UPDATE FOR MULTIFAMILY HOUSING

Learn about new and innovative building-envelope products and systems that are helping produce greener, and more efficient and comfortable buildings for the multifamily residential market. (Sponsored by CertainTeed Gypsum, Oldcastle Architectural, Pella EFCO Commercial Solutions, and Tamlyn)

—CREDIT 1 HSW; 1 GBCI CE HOUR



ON THE RISE Interest in tilt-and-turn hardware and better thermal performance has increased the use of European windows in the U.S.

2 EUROPEAN WINDOWS BOOST U.S. PERFORMANCE AND DESIGN

This course looks at the features and measures of high-performance European-made windows and outlines how glass selection, gas fills, window sizing, and installation can affect ratings, energy efficiency, heat gain, and light transmission. (Sponsored by Zola European Windows)

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KITCHEN CHOREOGRAPHY Point-of-use appliances make for sleek, efficient, and social kitchens.

3 THE SHIFT TO MODULAR REFRIGERATION

Learn about modular refrigeration, the use of separate freezer and refrigerator units that can be strategically placed; options for designing with these units; and the benefits of implementing them, such as a more efficient zoned-kitchen layout that caters not only to home chefs and families but also aging populations. (Sponsored by U-Line)

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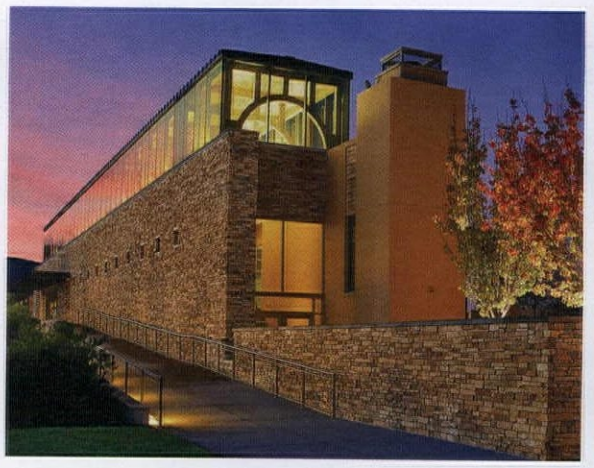


FOREST FOR THE TREES Designers are becoming attentive to the benefits of using wood from sustainably managed forests.

4 EVALUATING THE CARBON FOOTPRINT OF WOOD BUILDINGS

Design professionals are uniquely positioned to reduce greenhouse gases by creating high-performance structures. This article discusses how they can achieve this by understanding the natural cycle of carbon and the ways wood mitigates emissions, and by sourcing from sustainably managed forests. (Sponsored by reThink Wood)

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MESSAGE RECEIVED Hospitality and retail facilities rely heavily on design to draw customers and convey a brand's intended character.

5 WHAT'S NEW IN RETAIL AND HOSPITALITY DESIGN

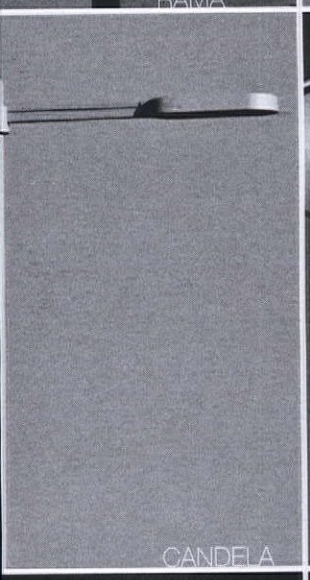
This CEU considers general trends influencing retail and hospitality design and assesses products that can enhance projects' aesthetic as well as sustainable characteristics. (Sponsored by EarthWerks, Eldorado Stone, Hawa Americas, Mitsubishi Electric Cooling & Heating, NanaWall Systems, National Terrazzo & Mosaic Association, and TOTO USA)

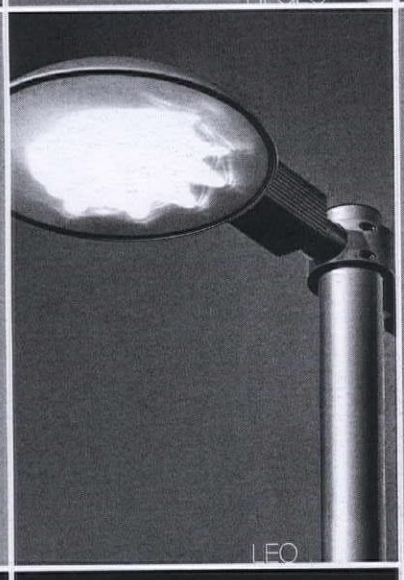
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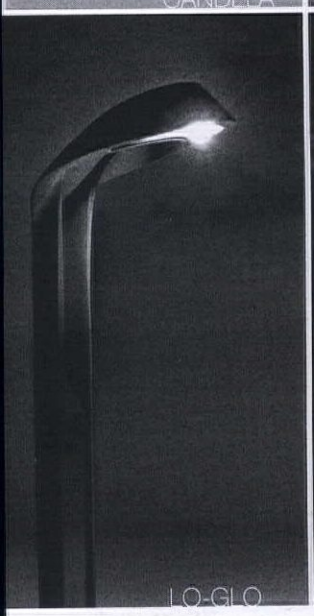


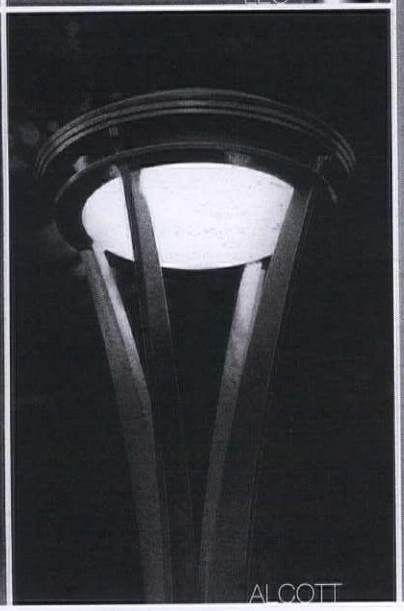


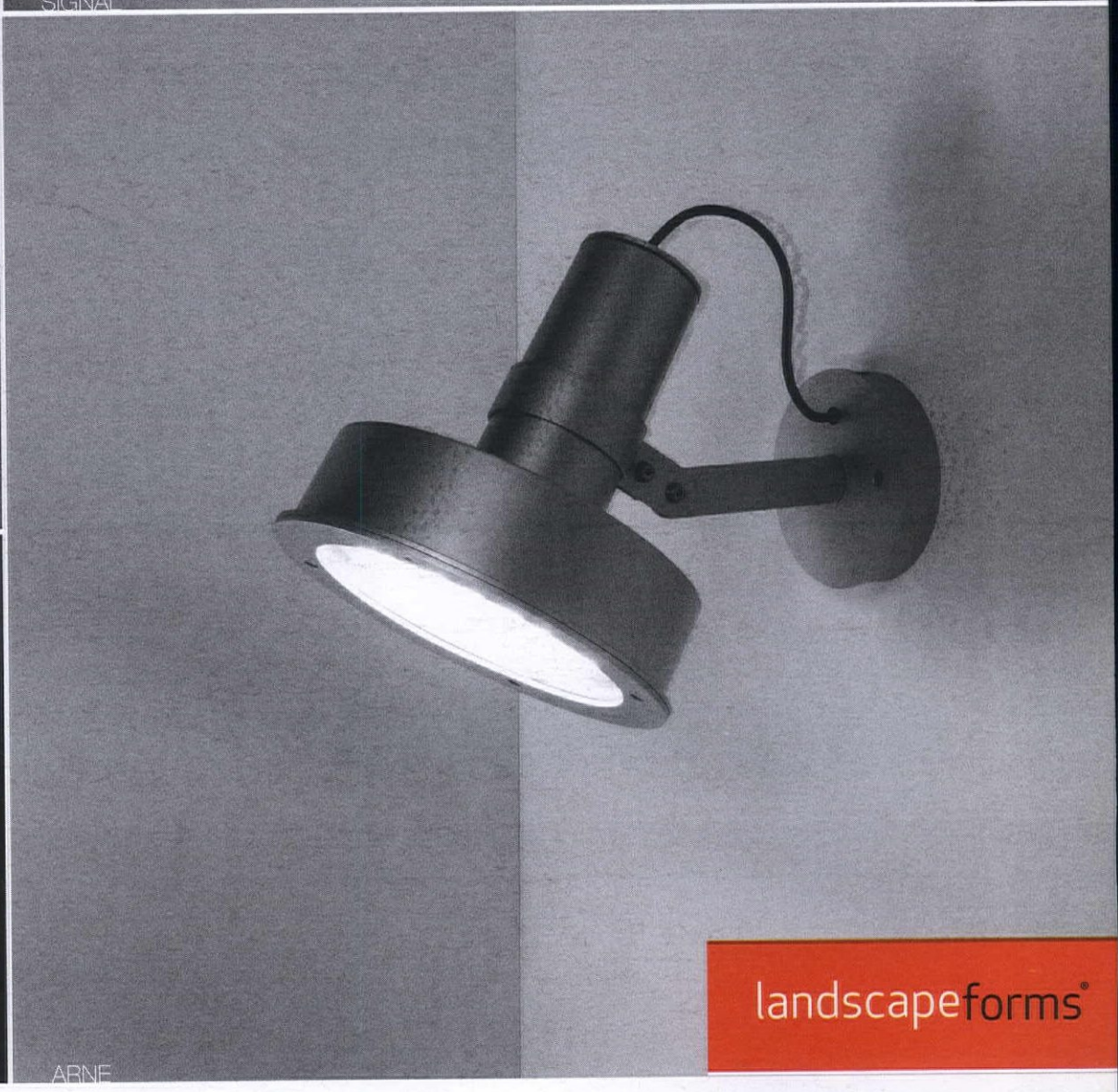












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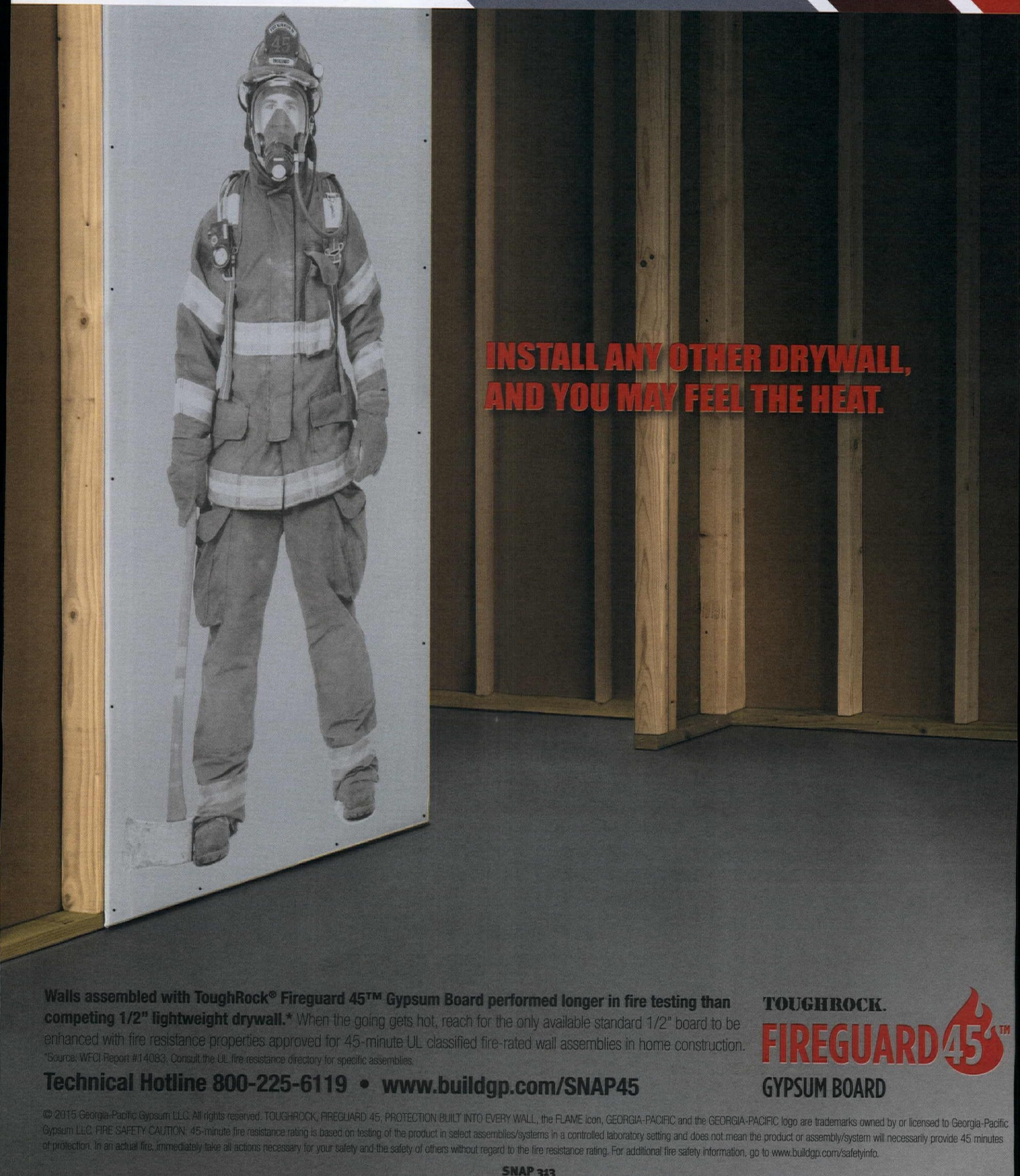
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WHEN YOU ARE TRYING TO ADD ENERGY EFFICIENCY, OUR VALUE IS IN THE R-VALUE. For new and retrofit projects, Mapes-R and Mapes-R+ rabbet edge panels add to the aesthetic appeal of any building and have an R-value up to 27.79. **800-228-2391 WWW.MAPES.COM** SNAP 273

mapes
ARCHITECTURAL PANELS

PICTURED: MAPES-R+



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Customer Satisfaction Made Easy

You work hard to create inspiring designs that your customers will love; we can help make it a little easier. Our ***CableRail*** stainless steel cables are a great choice for projects that require a view-friendly railing infill option that's attractive, durable and ultra-low maintenance. We offer a wide selection of packaged and custom cable assemblies including the automatic-locking ***Quick-Connect***® fittings, and with services such as shop drawings and engineering reports, Feeney makes design, preparation and installation…***easy.***

CABLE·RAIL®
by feeney®



SNAP 312

Learn about our entire line of architectural & garden products.

For a free catalog call **1-800-888-2418** or visit **www.feeney6.com**

feeney®
makes it easy

HARDSCAPE ON TOP

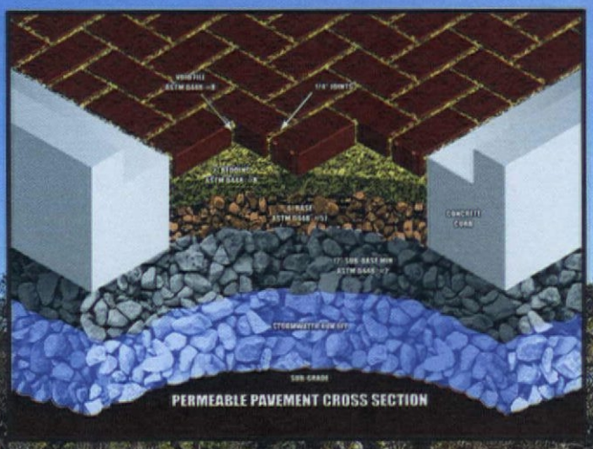
tormPave...it's like hiding your retention ond under your hardscape.

Vith a BMP installation, you can have a aditional clay paver hardscape and storm ater storage too. StormPave permeable ay pavers have been independently sted to have an infiltration rate 720 inches per hour.

CLAY GENUINE PAVERS

Pine Hall Brick

earth friendly...naturally green



From the base storage, storm water can dissipate back into the soil or be routed to underground tanks to be used for landscape irrigation. Either way, you don't have to give up valuable real estate for a retention pond.

SNAP 248

800.334.8689

www.americaspremierpaver.com
www.pathwaycafe.com

WATER STORAGE BELOW

Hillshire Brands, Chicago IL
architect: Perkins + Will
landscape architect: Wolff Landscape Architecture, Inc.

CREATING ROOFTOP ENVIRONMENTS

Wood Tiles | Pedestals | Site Furnishings



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SNAP 274

MANUFACTURERS' SPOTLIGHT SECTION

Look to these pages for products brought to you directly from manufacturers. You'll find the information you need to make SNAP decisions: price, performance data, product application, and contact information. Use the reader service card in the issue or go online at sweets.com to request further details.



Maglin's Lexicon modular bench series can accommodate straight and curved configurations. (**SNAP #18**)

TABLE OF CONTENTS

Doors, Windows ..... Pgs. 81-84
Doors, windows, storefronts, entrances, glazed curtain walls, skylights, translucent wall and roof assemblies.

Interior Finishes, Furnishings ..... Pgs. 89-90
Products for finishing and furnishing building interiors, such as flooring, wall coverings, ceilings, furniture, shelving systems, coat racks, and window treatments.

Roofing, Siding, Thermal & Moisture Protection ..... Pgs. 95-96
Products for constructing the building envelope, such as exterior wall and roof panels, sheathing, thermal insulation, and waterproofing.

Materials ..... Pgs. 101-102
Basic products, such as lumber, concrete, and masonry units used in construction. Includes paint, coatings, structural materials and fittings, and products designed for more generic use in multiple applications.

Electrical, Lighting ..... Pg. 105
Products for generating, transmitting, distributing, and transforming electrical energy, such as light fixtures and power supplies. Includes intercommunication equipment.

Equipment ..... Pgs. 109-110
Equipment for a broad range of applications, such as A/V and multimedia, conveyance, such as elevators, and household use, including appliances.

Mechanical Systems, HVAC, Plumbing ..... Pgs. 115
Products for conditioning, moving, holding, and otherwise controlling air, water, and other fluids. Includes plumbing products, fans, ventilators, and boilers.

Landscaping, Sitework ..... Pgs. 117
Exterior improvement products, such as site furniture, bicycle racks, bollards, pavers, landscape edging, and exterior green walls. Also includes trellis systems, gazebos, and other site structures.

Specialty Products ..... Pgs. 123-132
Products for special applications, or products that may apply to more than one category, such as railing systems, fencing, gates, ladders, columns, signage, awnings, and canopies.

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Sometimes what you don't see is just as important as what you do.

RIXSON®
ASSA ABLOY

An architect's vision often leads to majestic and imaginative new designs. That's why they count on RIXSON, the company that makes it possible for their buildings to be adorned with highly impressive openings.

From the most modest to the grandest of doors, RIXSON's concealed closers and pivots ensure effortless operation and superior performance, without sacrificing lasting beauty.



Left to Right:
Electromagnetic Door Holder/Release, Offset Pivot, Floor Closer, Checkmate® Stops and Holders

For more information, scan the QR code above or visit www.rixson.com

ASSA ABLOY, the global leader in door opening solutions

SNAP 249

PRODUCT SPOTLIGHTS

DOORS, WINDOWS	PGS.	81-84
Interior Finishes, Furnishings	Pgs.	89-90
Roofing, Siding, Thermal & Moisture Protection	Pgs.	95-96
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Mechanical Systems, HVAC, Plumbing	Pgs.	115
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Specialty Products	Pgs.	123-132

DOORS, WINDOWS

UPGRADE CLASSROOM SECURITY

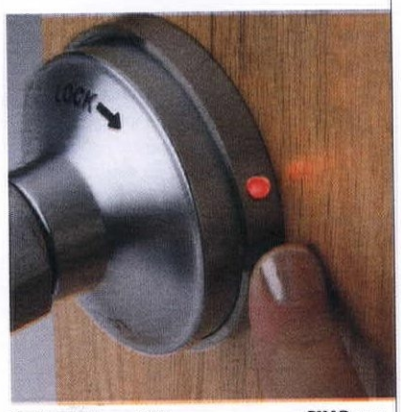
$ | NEW

PDQ Manufacturing

Classroom Intruder Lock. In the event of a lockdown emergency, built-in red LED light allows staff to check if outside lever on a classroom door is locked and secure with opening the door.

Product Application
- Elementary schools, middle schools, high schools

Performance Data
- PDQ Lock Function F135 = ANSI Lock Function F110
- Lever tested to 3,000 in.-lb (over 4 ANSI/BHMA Grade 1 Standard)



www.pdqlocks.com
800.441.9692 | Steve Snyder

Booth: 311 DHI **SNAP 100**

DOORS, WINDOWS

HIGH-PERFORMANCE ALL-GLASS ENTRANCE SYSTEM

NEW

CRL-U.S. Aluminum

A first-of-its-kind entrance system, the new Entice™ Series exceeds demanding building code and energy conservation requirements while maintaining elegant all-glass aesthetics.

Product Application
- Accommodates 1-in. insulating glass
- Thermally broken cladding

Performance Data
- Meets the requirements of AAMA SFM-1-14
- Meets ASHRAE 90.1 Air Infiltration and Thermal Performance Requirements
- U-factors as low as 0.33



www.crl-arch.com
800.421.6144

SNAP 101

DOORS, WINDOWS

NEUTRAL LOW-E GLASS

NEW

PPG Architectural Glass

Solarban z75 low-e glass features a neutral aesthetic that provides a high level of visible light transmittance and glare control while offering superior daylighting.

Performance Data
- An SHGC of 0.24 and VLT of 48%, which combine to yield a light to solar gain (LSG) ratio of 2.00
- Learn more at www.ppgideascapes.com



www.ppgideascapes.com

SNAP 102

DOORS, WINDOWS

CLOSURE SYSTEMS

Mobilflex Folding & Rolling Closures Inc.

Malls, window protection, banks, schools, hospitals, airports, ships, reception desks.

Performance Data
- Any layout, any radius curve
- Large spans – up to 19 ft high, 200 ft wide
- Distinctive looks, rugged protection



www.mobilflex.com
800.216.3539

SNAP 103

DOORS, WINDOWS

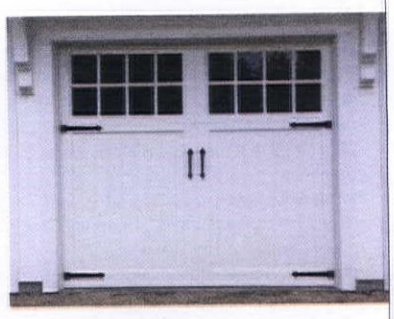
CUSTOM WOOD GARAGE DOORS

$$$

Clingerman Doors

Custom architectural designs available.

Product Application
- High-end PVC and wood garage doors
- True swing out carriage doors
- Entry doors



www.woodgaragedoor.com
814.784.3634 | clingerman10@gmail.com

SNAP 104

DOORS, WINDOWS

OPERABLE PARTITIONS

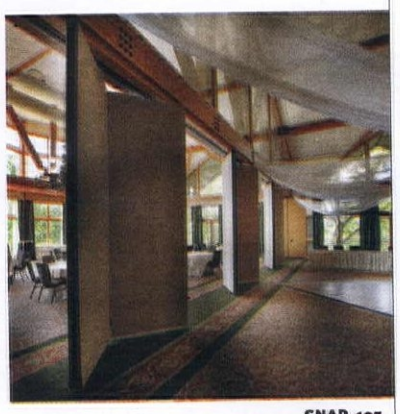
$$$ | GREEN | NEW

Modernfold

Acousti-Seal® Encore™ next-generation operable partitions with error-proof set-up and industry-leading 56 STC; everything needed to redefine productive space.

Product Application
- Eagle Ridge Resort & Spa, Galina, IL
- Trimless panels for seamless space transition

Performance Data
- Industry-leading 56 STC
- SureSet™ automatic seal mechanism top and bottom



www.modernfold.com
800.869.9685 | Glen Sutphin

SNAP 105

DOORS, WINDOWS

SKYLIGHTS THAT SAVE ENERGY & CONTROL SUNLIGHT

GREEN

Major Industries, Inc.

Guardian 275® translucent panel skylights from Major Industries are lightweight, provide built-in glare control, eliminate hot-spots and can be insulated for enhanced thermal performance.

Product Application
- Custom-design options including colored insulation, curved systems and mixed glazed skylights
- Perfect for unique canopy designs

Performance Data
- Center of panel U-factors as low as .08
- NFRC listed



www.majorskylights.com
888.759.2678 | info@majorskylights.com

SNAP 106

All products in this section are accessible on sweets.com.

$$$**= Premium cost | **$$**= Mid-range cost | **$= Value-oriented cost | **WR** = Wide range of price points | **NC**= No charge
G = Product marketed as green | **NEW** = Released in the past 12 months

DOORS, WINDOWS

ONE-PIECE HYDRAULIC & LIFT- STRAP BIFOLD DOORS

WR

Schweiss Doors, Moving Walls

Schweiss Doors manufactures unique custom doors. One-piece hydraulic doors and patented Lift-Strap opening/closing bifold doors.

Product Application

- Moving doors and walls
- You think it, they build it
- Custom-designed storefronts and more

Performance Data

- Faster, safer operation
- Zero lost headroom
- Superior design that keeps working



www.schweissdoors.com
507.426.8273 | schweiss@schweissdoors.com

SNAP 107

DOORS, WINDOWS

MULTI-LAMINATE IN BUTT-GLAZED ASSEMBLIES

NEW

SAFTI FIRST Fire Rated Glazing Solutions

60 to 120 min. fire-resistive SuperLite III-XL meets ASTM E-119/UL263 w/ hose stream and CPSC Cat. II impact safety. UL listed. Proudly USA-made. Can be used w/ GPX Architectural Series Framing.

Product Application

- Butt-glazed assemblies with a max. single panel size of 6,975 sq in.
- Largest fixed-frame glass panel in the industry at 5,978 sq in.

Performance Data

- ASTM E-119/UL 263 with hose stream
- CPSC Cat. II impact safety



www.safti.com
888.653.3333 | info@safti.com

SNAP 108

DOORS, WINDOWS

CLEAR SOLUTION FOR ALL 45-MIN. APPLICATIONS

NEW | $

SAFTI FIRST Fire Rated Glazing Solutions

There's nearly clear—then there's clear. SuperLite II-XL 45 offers the best clear solution for all 45-minute applications at a better price than ceramics. Proudly USA-made.

Product Application

- Doors
- Windows, sidelites, transoms

Performance Data

- ASTM E-119 with hose stream
- CPSC Cat. II safety
- 40 STC
- UL/WHI listed in large sizes



www.safti.com/best45
888.653.3333

SNAP 109

DOORS, WINDOWS

LIBRARY LADDERS & SLIDING DOOR HARDWARE

Specialty Doors

World's largest selection of sliding door hardware.

Product Application

- Wine cellars
- Restaurants/bars
- Libraries
- Closets
- Kitchens

Performance Data

- German precision
- Telescoping top
- Curves available



www.specialtydoors.com
866.815.8151 | Tom Gross

SNAP 110

DOORS, WINDOWS

IN-FLOOR ELECTROMECHANICAL SWING DOOR OPERATOR

WR

Tormax Technologies, Inc.

Fully concealed in-floor operator was designed for rigorous conditions of commercial use for doors weighing up to 1,000 lb.

Product Application

- Buildings that meet the Historic Preservation Society guidelines

Performance Data

- Solid glass, wood, metal, fiberglass and/or arched doors
- Elevated design for convenience, comfort, safety
- Eco-friendly, 110-VAC electromechanical operator



www.tormaxusa.com
888.685.3707

SNAP 111

DOORS, WINDOWS

CHURCH WINDOWS

$$$ | GREEN

J. Sussman, Inc.

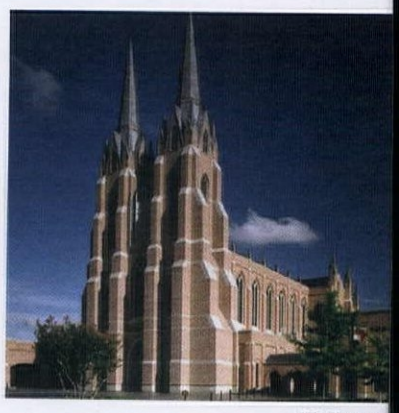
Specially designed window frames made to receive art glass and insulated protection glass for superior condensation resistance and insulation.

Product Application

- Triple-glazed thermal barrier design
- Specializing in custom shaped frames

Performance Data

- 3-1/2 in. deep, AP-HC70, FW-AW80
- Integral venting
- Hurricane/impact approved
- Thermal strip technology will not shrink or crack
- Dual color availability; BIM available



www.jsussmaninc.com
718.297.0228 | Terresa Teh

SNAP 112

DOORS, WINDOWS

ZIPPER ROLLER SHADES KEEP THE LIGHT OUT

MechoSystems

The ShadeLoc® system allows for solar and blackout shades to be used on windows, providing optimal coverage via the special zipper fastening system along the edges of the shades.

Product Application

- Large windows
- Hospitality environments
- Museums and conference rooms

Performance Data

- Multiple shades on adjoining windows can operate with one motor
- Side channels available in different colors, profiles



www.mechosystems.com/ShadeLoc
718.729.2020 | William Maiman

SNAP 113

DOORS, WINDOWS

WINDOW WALL

$$ | GREEN | NEW

Kawneer Company, Inc.

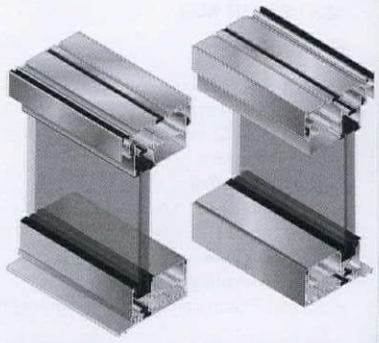
MetroView™ FG 501T Window Wall offers the look of a curtain wall with a slab-to-slab framing system.

Product Application

- Mid-rise construction
- Multifamily and commercial applications

Performance Data

- IsoLock™ pour and debridge thermal break design improves U-factor and condensation resistance
- Accepts insulating glass units for added occupant comfort



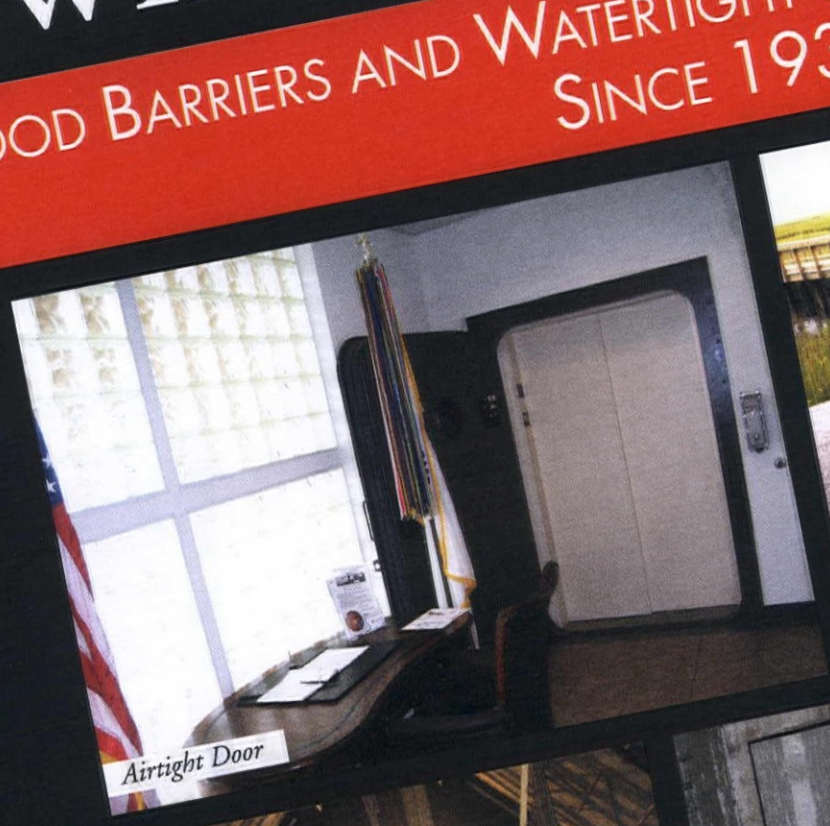
www.kawneer.com
770.840.6448 | Glenda Jackson

Booth: 2237 AIA Expo

SNAP 114

ENGINEERING + EXPERIENCE EQUALS A WINNING TRADITION

Flood Barriers and Watertight & Blast Resistant Doors Since 1939



Airtight Door



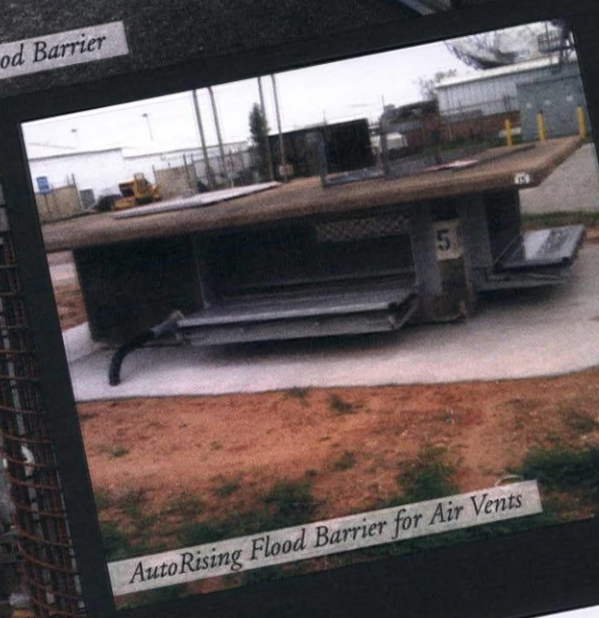
Removable Flood Barrier



High Pressure Door for Tunnel



Blast Door



AutoRising Flood Barrier for Air Vents

Fast Delivery | Cost Effective | Designed for Any Pressure | Any Location

Contact the experts at Walz & Krenzer for all your flood barrier, watertight and blast closure needs.

Walz & Krenzer, Inc.

91 Willenbrock Rd., Unit B4, Oxford, CT 06478 • www.floodbarriers.com
Tel: 203-267-5712 • Fax: 203-267-5716 • E-mail: sales@wkdoors.com

SNAP 275

DOORS, WINDOWS

WINDOW WALLS

WR | GREEN

Duratherm Window Corporation

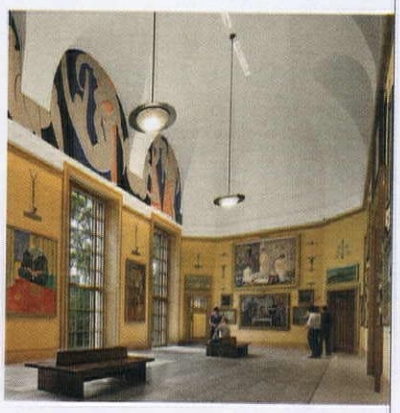
Custom hardwood window wall systems for residential and commercial installations.

Product Application

- Barnes Museum and Art Education Center
- Monticello Visitor Center
- Mercersburg Performing Arts Center

Performance Data

- Sustainably harvested lumber for LEED
- NWDA tested; commercial grade
- Hurricane/impact performance class: Wind Zone 3, Missile Level D



www.durathermwindow.com
800.996.5558 | Timothy Downing

SNAP 115

DOORS, WINDOWS

SWING DOOR FOR HOSPITAL APPLICATIONS

WR | NEW

Horton Automatics

The new Acoustic STC-35 ICU Swing™ Door from Horton Automatics is the first door designed to meet the stringent demands of hospital applications.

Product Application

- Intended primarily for interior use in the ICU and CCU

Performance Data

- The STC-35 manual swing door features wide glass panels for unobstructed viewing of patients and an improved handle design to prevent jamming due to continuous use



www.hortondoors.com
361.866.6624 | Ashley Estrada

SNAP 116

DOORS, WINDOWS

HEAVY-DUTY PIVOT SET

Rixson

Rixson's L117 pivot is the ideal way to hang a heavy door that does not need to be self closing.

Product Application

- Exterior or interior doors
- Lead-lined, heavy or high-traffic doors

Performance Data

- Weights up to 1,750 lb
- Available for fire door assemblies
- Doors will swing 180°, trim permitting



www.Rixson.com
704.233.1586 | Lana Kirkpatrick

SNAP 117

DOORS, WINDOWS

DOOR HINGES

$$

Zero International – An Allegion Company

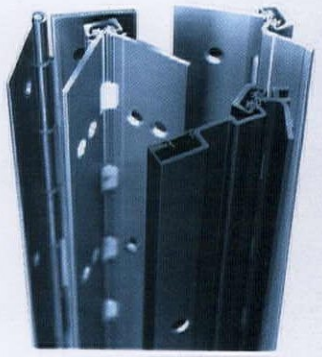
UNIGEAR® high-performance, integrated hinges dissipate kick-back and shock while maintaining smooth, effortless door swing.

Product Application

- Up to 9 ft or custom lengths
- For new or retrofit
- Regular or heavy duty

Performance Data

- Spreads stress full length
- Fire-rated models
- Hospital tips and electrified pass-through
- Self-lubricating



www.zerointernational.com
718.585.3230

SNAP 118

DOORS, WINDOWS

SLIDING GLASS DOOR ELEGANCE

$$$

Hawa Americas Inc.

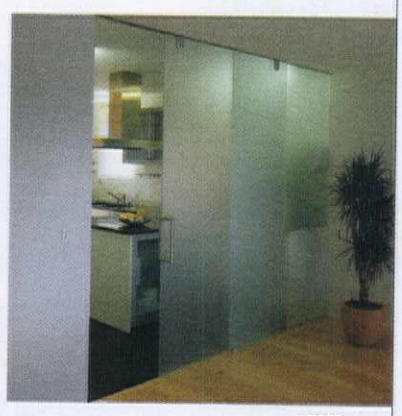
HAWA-Junior 40-160/GP sliding hardware system provides sliding glass door elegance with virtually invisible hardware, quiet running properties and easy operation.

Product Application

- Commercial, hospitality, residential
- Accommodates doors up to 352 lb
- High-end design with cover plates in variety of finishes

Performance Data

- Rattle-proof bottom guide prevents doors from rattling
- Optional SoftMove 80 mechanism for HAWA-Junior 80 gently decelerates and closes the sliding door



www.hawa.com
214.760.9054 | payne.chariessa@hawa.com

SNAP 119

DOORS, WINDOWS

CAST IRON DOOR CLOSER

$$$

Norton Door Controls

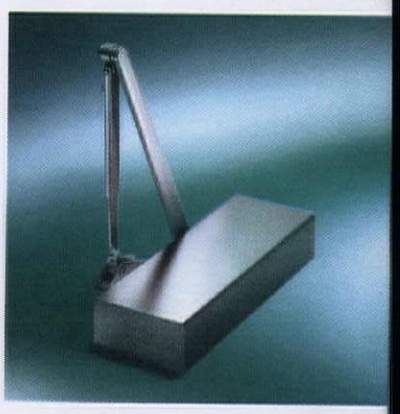
Ideal for high-use openings, the Norton 9500 Series Cast Iron door closer offers durability, flexibility and strength.

Product Application

- Forged standard and heavy-duty arms
- Adjustable spring sizes 1-6
- Closer mounting installation bracket standard

Performance Data

- Exceeds 20 million cycles (witnessed & verified by UL)
- 25-year limited warranty



www.nortondoorcontrols.com
704.233.1586 | Lana Kirkpatrick

SNAP 120

DOORS, WINDOWS

DO YOU DREAM IN DAYLIGHT?

$$$ | GREEN

Bayer MaterialScience

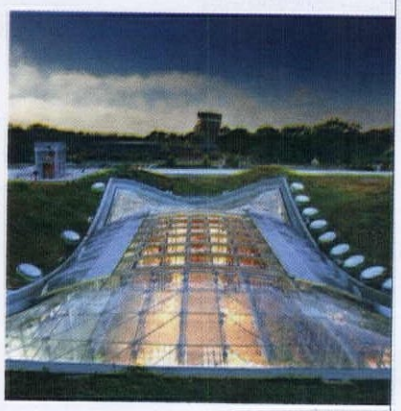
Makrolon polycarbonate sheets provide clear advantages over glass in architectural glazing, such as break resistance and design freedom.

Product Application

- California Academy of Sciences, San Francisco, CA
- Sparks High School, Sparks, NV
- Canada Place, Vancouver, Canada

Performance Data

- Abrasion resistance and weatherability
- 15-year warranty for Makrolon 15



www.sheffieldplastics.com
877.413.7957 | Cindy Race

SNAP 121

DOORS, WINDOWS

ALUMINUM FULL-VIEW DOORS

$$$

Amarr Garage Doors

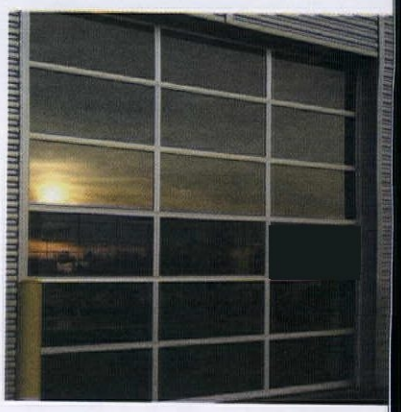
2-in. heavy-duty doors for a clean, bright look for any facility. Door widths avail. up to 24 ft 2 in., in 1-in. increments. Optional aluminum panels, full-view glass, anodized and powdercoat colors.

Product Application

- Service stations, fire stations, restaurants, sports complexes, automotive showrooms and repair centers

Performance Data

- Eco-friendly – provides maximum natural light and visibility to help reduce electric light requirements
- Heavy-duty (Model 3550) and light-duty (Model 3500) options



www.amarr.com
800.503.3667

SNAP 122

WON-DOOR
Cross Corridor FIREGUARD™



FireGuard Cross Corridor in Lieu of Swing Type Doors for Cost and Space Savings

- Wide open corridors
- No exposed hardware
- Low maintenance
- Integrated pocket cover door
- "Green" self-supporting track system
- Meets all egress requirements
- Up to 60 percent pocket depth reduction



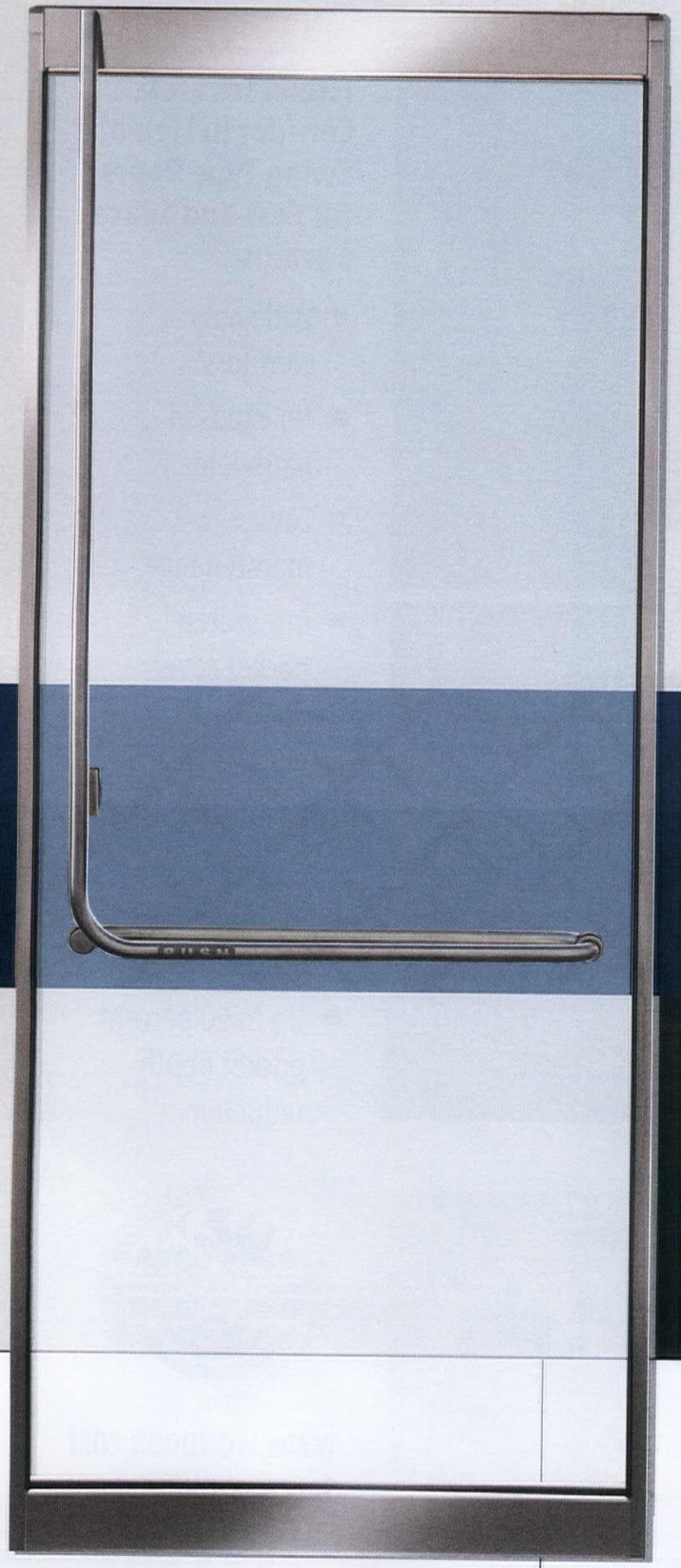


WON-DOOR CORPORATION

WWW.WONDOOR.COM
SALES@WONDOOR.COM

ALL-GLASS AESTHETIC, FULL-FRAMED PERFORMANCE

Protection from Air/Water Infiltration, Extreme Temperatures, and Mediocrity



Introducing

Entice™ Series

Patent Pending

By CRL-U.S. Aluminum

If you're planning a premium exterior retail space in 2015, **Entice™** is the only solution that delivers the aesthetically pleasing qualities of a monolithic frameless glass entrance, plus satisfies new energy code requirements and ASHRAE 90.1 air infiltration criteria. The first premium storefront of its kind, the **Entice™ Series** retains the elegant appearance of heavy glass storefronts with minimal vertical lines, and features the unique ability to support door handle hardware on 1" insulating glass panels that accommodate all high solar and thermal efficient glass options, including low-e coatings and tints.

- For Use With 1" (25 mm) Insulating Glass
- Meets ASHRAE 90.1 Air Infiltration and Energy Code Requirements
- AAMA 101 Performance Class LC-PG25-SHD
- U-Factors as Low as 0.33
- Thermally Broken Cladding in a Variety of Premium Finishes
- Patent Pending Seal-Loc Mechanically Clamping Seals Provide Ease of Fabrication and Glass Replacement



418_05/15

Learn more about our complete line of architectural glazing systems by contacting Technical Sales:
E-mail: **usalum@crlaurence.com**
Phone: **(800) 262-5151 Ext. 5305**
Fax: **(866) 262-3299**

CRL U.S. ALUMINUM
crl-arch.com



Make a Clean Getaway

5610K1 Kit

Sinks, dryers, toilets, and now...doors

The age of the touchless public restroom has arrived. Now visitors can have a totally hands-off experience, thanks to the Norton 5600 Series Low Energy Power Operator. This easy to install and adjust option is operated by the Norton wave to open wall switch. Wave goodbye to germs and say hello to cleanliness with the Norton 5600 Series.

To learn how, visit nortondoorcontrols.com

Scan this Microsoft® Tag using your mobile phone. Download the free mobile app at http://gettag.mobi

ASSA ABLOY, the global leader in door opening solutions

Norton®
ASSA ABLOY



ICONIC.
THE STADIUM TOO.

Stonhard® manufactures & installs seamless, easy to clean floors for spaces that demand the performance of champions.

Seamless, stain & slip resistant, easy to clean floors provide long term, sustainable floor protection along with inspiring designs. Stonhard manufactures and installs seamless floors for commercial spaces: stadiums, schools, hospitals, hotels and office environments. Performance, design and a single source warranty too.

See us at AIA in Atlanta, Booth #3769

www.stonhard.com | 800.257.7953

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STONHARD®

FLOORS FOR EVERY ENVIRONMEN

SNAP 251

PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	81-84
INTERIOR FINISHES, FURNISHINGS	**PGS.**	**89-90**
Roofing, Siding, Thermal & Moisture Protection	Pgs.	95-96
Materials	Pgs.	101-102
Electrical, Lighting	Pgs.	105
Equipment	Pgs.	109-110
Mechanical Systems, HVAC, Plumbing	Pgs.	115
Landscaping, Sitework	Pgs.	117
Specialty Products	Pgs.	123-132

INTERIOR FINISHES, FURNISHINGS

ZERO-VOC PAINT

PPG Paints

Speedhide zero is a low-odor, no-VOC latex paint designed for professional application.

Product Application

- Recommended for interior walls, ceilings and trim and ideal for painting occupied spaces

Performance Data

- Quick dry for faster recoat
- Uniform, durable and washable finish



www.ppgpaints.com
866.298.7245

SNAP 123

INTERIOR FINISHES, FURNISHINGS

BENCHES, COAT HOOKS & RACKS

GOF Ltd./A.J. Binns

A.J. Binns manufactures a complete line of coat hooks, hangers, shelving and seating.

Product Application

- Changing rooms and educational, medical and athletic facilities, etc.

Performance Data

- Functional, adaptable and particularly durable
- Contemporary styling with no length restrictions
- Designed to eliminate potential injury



www.binnsgof.com
802.655.7502

SNAP 124

INTERIOR FINISHES, FURNISHINGS

MULTI-USE SPORTS FLOORING

GREEN

Tarkett Sports

Omnisports flooring meets the demands of today's multi-use sports environments. It is versatile, easy to maintain and produced using phthalate-free manufacturing.

Product Application

- School gymnasiums
- Churches
- Recreation centers

Performance Data

- Asthma & allergy friendly™ (6.5 mm and 8.3 mm)
- Phthalate-free manufacturing
- ASTM F2772 sports performance



tarkettsportsindoor.com
888.364.6541

SNAP 125

INTERIOR FINISHES, FURNISHINGS

VANITY BRACKETS

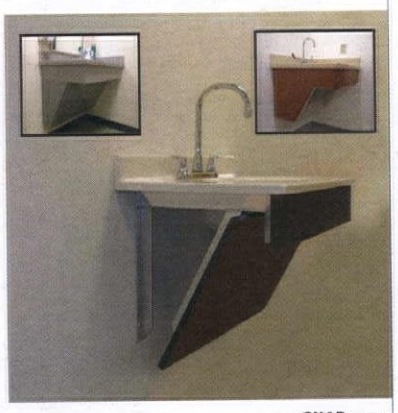
$ | GREEN

Rangine Corporation/Rakks

Rakks ADA-compliant aluminum vanity brackets simplify and reduce the cost of installing sinks and provide a stable mounting surface for custom-built enclosures.

Performance Data

- Supplied with wooden strips on the front faces to provide convenient mounting or removal of surface panels
- Available in standard sizes and made-to-order



www.rakks.com
800.826.6006 | David Greenberg

SNAP 127

INTERIOR FINISHES, FURNISHINGS

SEAMLESS HIGH-DESIGN FLOOR SYSTEMS

$$

Stonhard

Stontec URF is a seamless, chemical-, stain- and impact-resistant, urethane-based floor system with a decorative flake-infused design. A designer's choice.

Product Application

- Stadiums and entertainment venues
- Restaurants, food courts and concessions
- Box suites, locker rooms and concourses

Performance Data

- Seamless, easy to clean and high performing
- Stands up to heavy traffic and continuous use



www.stonhard.com
800.257.7953

SNAP 128

INTERIOR FINISHES, FURNISHINGS

GREAT ACOUSTICS—ENDLESS STYLE POSSIBILITIES

WR | GREEN | NEW

Tectum Inc. – The Noise Solution

The latest innovation from Tectum Inc., Tectum Panel Art comes in eight different prefabricated shapes. Select your color and shape combinations to create a custom installation that is high impact and abuse resistant while delivering the noise reduction performance you've come to expect from all Tectum Products.

Product Application

- Public spaces, auditoriums & schools
- Performance spaces, theaters & multipurpose arenas
- Anywhere noise reduction is important and style matters

Performance Data

- Easy to install
- NRC of .40
- o flame spread
- o smoke development



Tectum Panel Art Hexagon in Natural



Panel Art in a high-traffic, high-visibility space

Tectum.com
888.977.9691 | info@tectum.com

Booth: 3045 AIA Expo

SNAP 126

All products in this section are accessible on sweets.com.

$$$**= Premium cost | **$$**= Mid-range cost | **$= Value-oriented cost | **WR** = Wide range of price points | **NC**= No charge
G = Product marketed as green | **NEW** = Released in the past 12 months

INTERIOR FINISHES, FURNISHINGS

HIGH DEFINITION GLAZED PORCELAIN FLOOR & WALL

NEW | GREEN

Florida Tile

Since 1954, Florida Tile has been an innovator, from building the first floor tile plant in the USA to introducing the first digitally printed products with its HDP – High Definition Porcelain® lines.

Product Application

- All residential and commercial wall, countertop and backsplash applications, all residential and most commercial floor applications

Performance Data

- EarthstoneHDP by Florida Tile is the newest HDP line featuring four earthy tones



www.floridatile.com
800.352.8453 | sales@floridatile.com

SNAP 129

INTERIOR FINISHES, FURNISHINGS

TURN YOUR BATH TOWELS INTO WARM LUXURY

GREEN

Amba Products

Custom-built towel warmer (Vega Collection) – Create the perfect heated towel rack for your bathroom and say goodbye to damp, cold towels.

Product Application

- 304-grade stainless steel
- Functions as a space heater for cold rooms
- Variety of sizes and styles
- Polished, brushed or oil-rubbed bronze finishes



www.ambaproducts.com
404.350.9738 | fred@ambaproducts.com

SNAP 130

INTERIOR FINISHES, FURNISHINGS

ARCHITECTURAL GLASS

$$

Bendheim

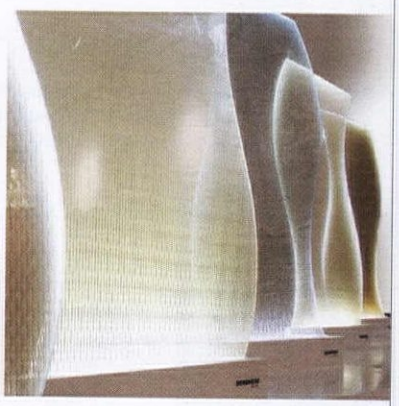
The KOVA for Bendheim Collection of safety laminated glass features decorative textile interlayers, creating new possibilities for dividing interior spaces.

Product Application

- Screens & partitions
- Stair railings & balustrades
- Canopies & ceilings
- Lighting & furniture

Performance Data

- Can improve STC rating by 4 points to STC 35 or better
- Laminated safety glass meets building codes



www.BendheimArchitectural.com
800.221.7379 | info@bendheim.com

SNAP 131

USE THE CARD AND WIN!





Request free product information in a SNAP with our convenient mail-in postcard and be entered to WIN one of five $100 VISA gift cards. Easy, Fast, Smart.

Drawings are random. Winners will be drawn 90 days after publication. NO PURCHASE NECESSARY. A PURCHASE WILL NOT IMPROVE YOUR CHANCES OF WINNING. TO ENTER: Mail or fax the reader service card found in SNAP or visit sweets.com for the SNAP reader service center and select products. To submit an entry by mail, mail an index card with your name, address, email address and daytime phone number to: "SNAP Reader Service Contest," Reader Service Card Processing Center, P.O. Box 5148, Buffalo, NY 14205-9993. There will be 5 winners for each issue drawn from entries received. Retail value of the VISA gift card is $100. View complete rules at construction.com/sweets/snap/contest/.

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When you want the very best.

Infrared Dynamics has a multiple heater line to fit into most patio situations. American-made Sunglo™ and Sunpak® Infrared Propane or Natural Gas heaters are well known for providing many years of dependable service.

Most models are available in either stainless steel or powder-coat finishes.

Manufactured in the U.S.A. by
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A California Company
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www.infradyne.com

SNAP 277

Sweetstakes



ENTER THE 2015 SWEETSTAKES!

FOR A CHANCE TO WIN AN APPLE WATCH ENTER AT: SWEETS.COM

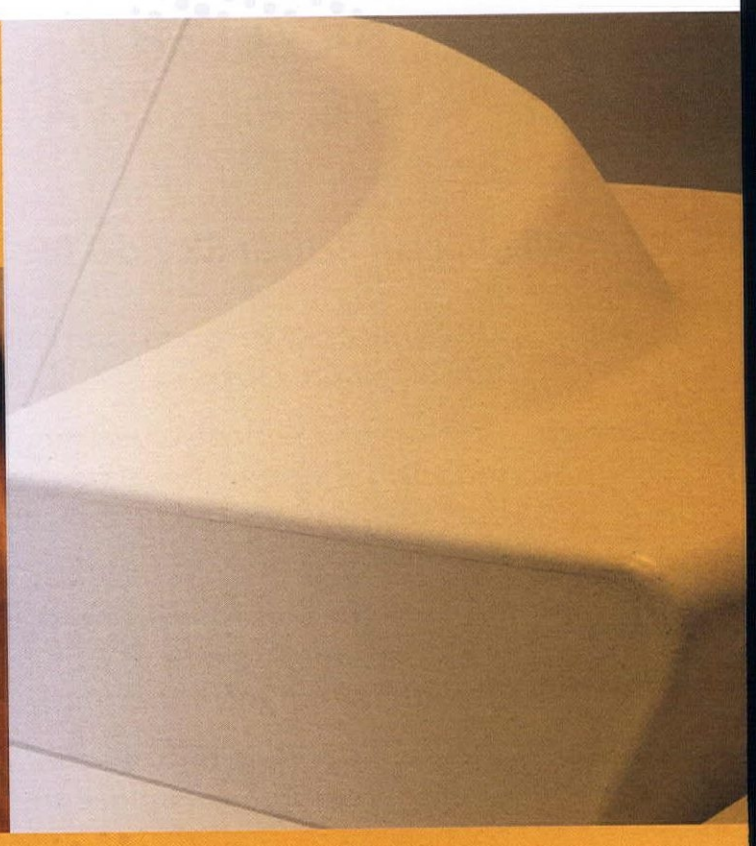
the COLLABORATION SERIES NO. 1

from TECTURA DESIGNS

TECTURA designs™

A stunning collection of exclusive site furnishings designed by award-winning landscape architects at Damon Farber





The new Collaboration Series by Tectura Designs combines the brilliance of award-winning designers with the unmatched craftsmanship and unwavering attention to detail that has made Tectura Designs the trusted choice of the world's leading architects. The all-new collection features bold and distinctive pieces that seamlessly blend with one another for endless combinations and one-of-a-kind projects.

Discover more about The Collaboration Series and request more information at collaboration.tecturadesigns.com

Tectura Designs is a Wausau Tile Inc. brand

Super Sky Products not only designs and manufactures the highest quality custom skylights and sloped glazing systems, but also **specializes in...**

SKYLIGHT REPAIR & RENOVATION

What can Super Sky do for You?

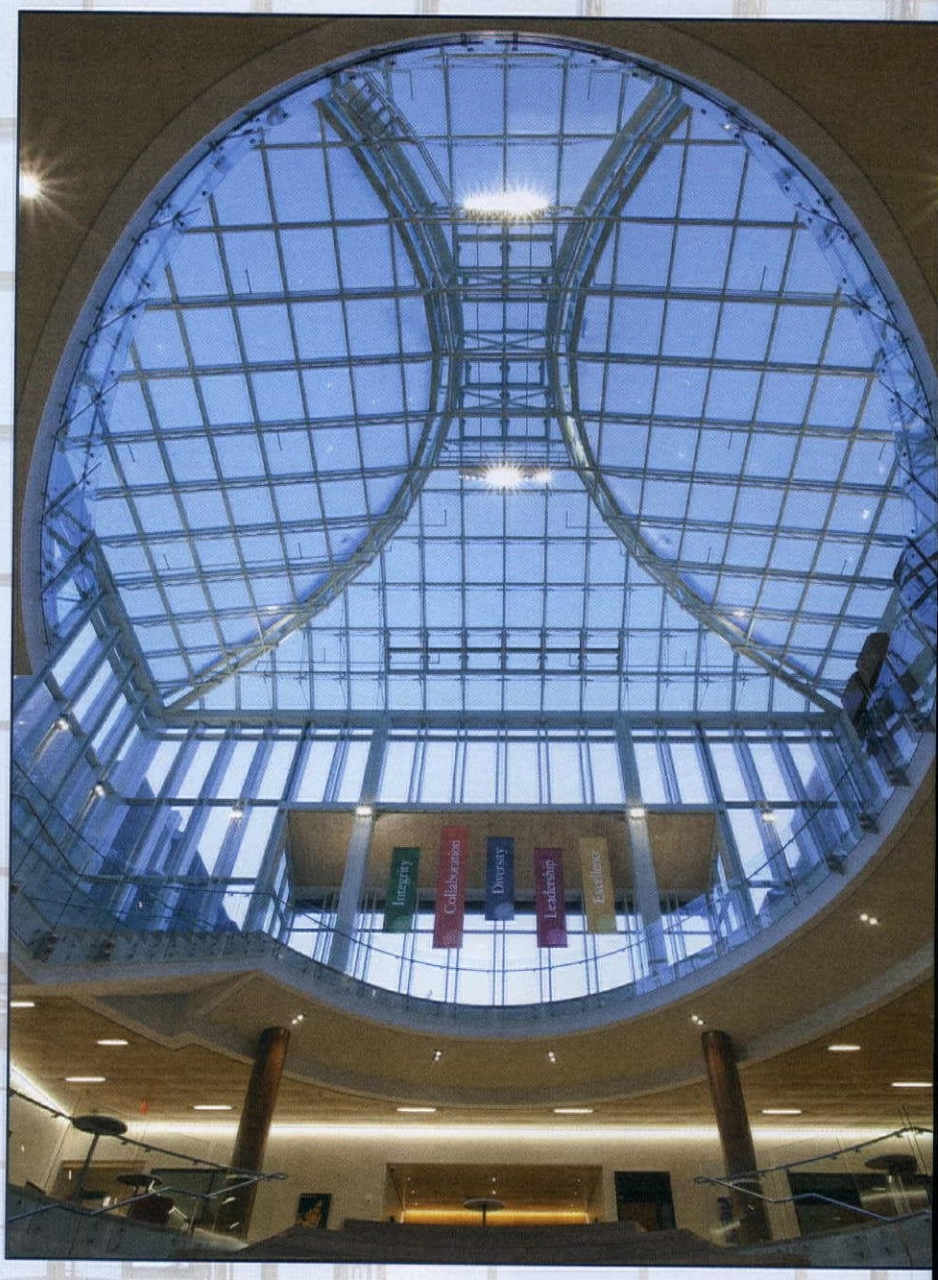
Repair Make necessary repairs to existing skylights and eliminate leaks.

Refurbish Remove and replace all existing sealant and recaulk the system. New caps and pressure bars with gaskets can be provided, for a "like new" skylight.

Reglaze Replace the glass in existing skylights due to seal failure or upgrade to high performance and laminated safety glazing.

Replace If the system is old and unsafe, we can offer efficient solutions to replace the skylight and possibly value engineer the system design.

New Construction



Historical Renovation

Chicago Cultural Center Chicago, IL



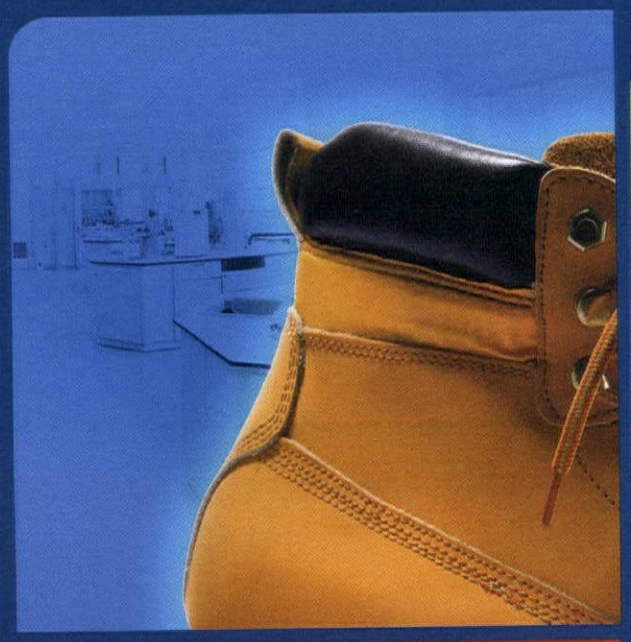


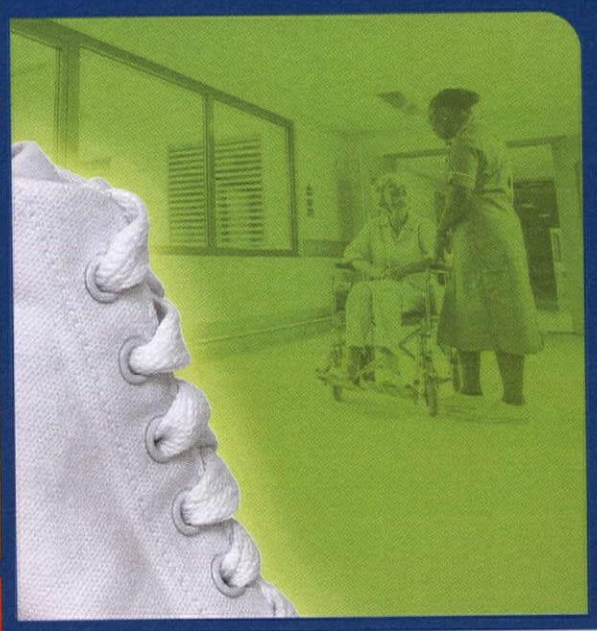


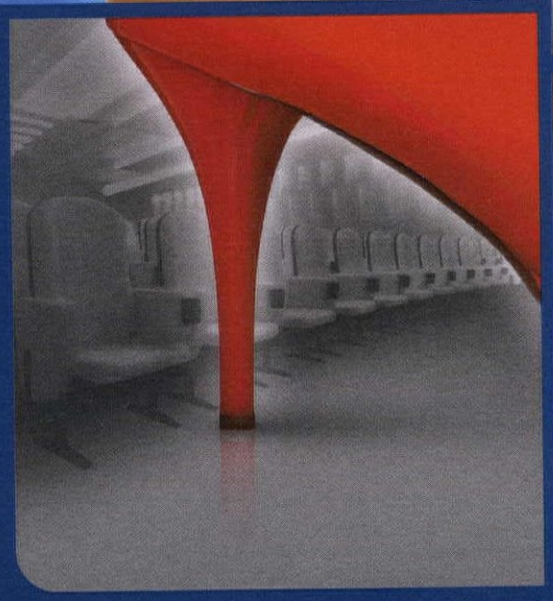
See us at AIA Booth #539

Super Sky Products Enterprises, LLC
800•558•0467 262•242•2000
www.supersky.com

SNAP 252









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Give us your toughest environment. Protect-All® Flooring provides slip-resistant durability that withstands temperature extremes and moisture. But just because we're tough, doesn't mean we're not a softie. Our flooring reduces leg fatigue and absorbs sounds.

We even offer a ground-breaking installation system called Protect-All Rapid Weld™ that's fast, easy to install and long-lasting.

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Protect-All® Flooring

For all walks of life.

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Walk All Over Us_8.19.14_v1

A roof is not just a roof.

With *Fibertite® Brite™* your roof can be a work of art.

Unique Fibertite® roofing membranes in a variety of custom colors and patterns, designed to complement your building's character.

(And with an over 30 year life span, they're also designed to last.)





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800-927-8578
fibertite.com/brite

FiberTite® BRITE™
BY SEAMAN CORPORATION

PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	81-84
Interior Finishes, Furnishings	Pgs.	89-90
ROOFING, SIDING, THERMAL & MOISTURE PROTECTION	**PGS.**	**95-96**
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Mechanical Systems, HVAC, Plumbing	Pgs.	115
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Specialty Products	Pgs.	123-132

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

ROOF MEMBRANE OFFERS AESTHETIC APPEAL & PROTECTION

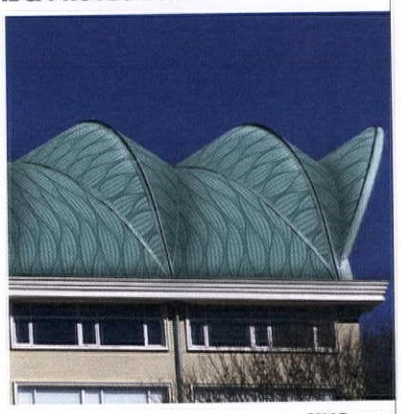
NEW

FiberTite Roofing Systems

FiberTite® Brite™ with Kynar® is engineered for projects that require aesthetic appeal & long-term protection. Custom color options & a flexible membrane allow for infinite design possibilities.

Product Application

- Libraries, schools and universities
- Commercial buildings
- Sports and hospitality venues
- Museums and theaters
- Healthcare facilities
- Financial institutions



www.FiberTite.com/Brite
800.927.8578

SNAP 132

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

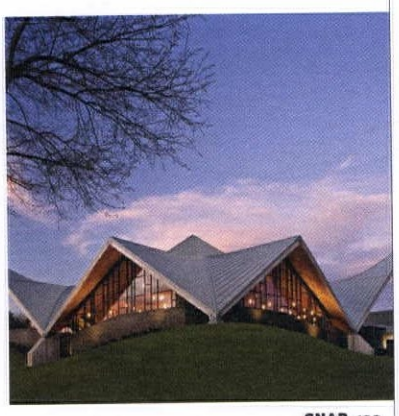
METAL ROOFING

GREEN

Englert, Inc.

Englert, Inc.'s ULTRA-Cool™ low-gloss coatings are standard on all Englert metal and aluminum products and help reduce energy bills up to 50%.

- Englert's own coil coating line provides a spectrum of ULTRA-Cool coatings that meet ENERGY STAR® and LEED requirements for reflectivity and emissivity
- ULTRA-Cool coatings come with a 35-year Kynar paint finish warranty



www.englertinc.com
800.Englert

SNAP 133

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

SUSTAINABLE GREEN ROOF SYSTEMS

$ | GREEN

Sika Sarnafil

Protects structures from water infiltration while hosting sustainable, regenerative roof landscapes.

Product Application

- Walmart, Chicago, IL
- Janelia Farm Research Campus, Howard Hughes Medical Institute, Ashburn, VA
- US Postal Service, New York, NY

Performance Data

- More than 25 years' experience in US
- Single-source warranty for vinyl roof and vegetated landscaped cover



usa.sarnafil.sika.com
800.451.2504 | Jay Thomas

SNAP 134

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

LATH & DRAINAGE IN ONE SYSTEM

$ | NEW

Mortar Net Solutions

LathNet is the first factory-assembled drainage plane and metal lath system for adhered masonry veneer walls in residential and commercial buildings.

Performance Data

- Continuous drainage plane allows fast, complete drainage and drying
- Installs like regular lath, prevents mortar bridging



www.mortarnet.com
800.664.6638 | Art Fox

SNAP 135

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

METAL ROOFING

GREEN | $$

Petersen Aluminum Corporation

SNAP-CLAD Metal Roofing Panels feature architectural aesthetics and structural performance. They are corrective leveled for superior flatness.

Product Application

- Madison, TN fire station
- LEED Gold certification

Performance Data

- Available in 38 colors on steel and 37 on aluminum
- 20-year non-prorated finish warranty
- Labor-saving one-piece design



www.PAC-CLAD.com
800.722.2523

SNAP 136

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

PAVER LOCK-DOWN SYSTEM

WR

Wausau Tile Inc.

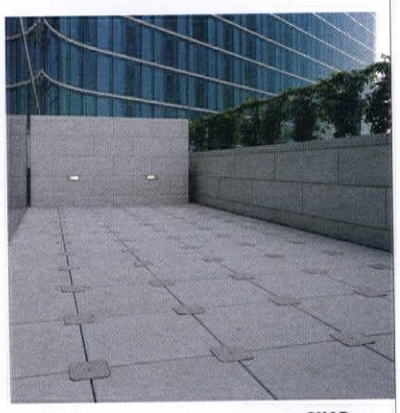
Paver Lok-Down™ Unit is specifically designed to resist wind uplift on paver roof decks. Consists of four components allowing for easy installation. Available in six standard color options.

Product Application

- Omni Hotel, Dallas, TX
- Omni Hotel, Ft Worth, TX
- Coronado Hotel, St Pete's Beach, FL

Performance Data

- Performance tested at the International Hurricane Research Center, FIU, Miami, FL



www.wausautile.com
800.388.8728 | Paving Department

SNAP 137

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

ADVANCED HEAT & UV PROTECTION TPO

$$$ | GREEN

GAF

EverGuard® Extreme™ TPO is GAF's premium TPO product, formulated with proprietary stabilizers and UV absorbers that result in weathering performance far beyond current standards.

Performance Data

- Outperformed all other manufacturers' TPO products in the largest-ever independent TPO study, proving it to be the longest-lasting TPO available on the market



www.gaf.com
973.628.3000

SNAP 138

All products in this section are accessible on sweets.com.

$$$**= Premium cost | **$$**= Mid-range cost | **$= Value-oriented cost | **WR** = Wide range of price points | **NC**= No charge
G = Product marketed as green | **NEW** = Released in the past 12 months

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

ARCHITECTURAL METAL ROOF & WALL SYSTEMS

WR | GREEN

Metal Sales Manufacturing Corporation

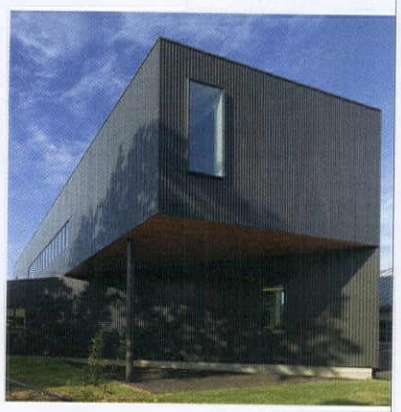
Durable, recyclable metal panels designed for versatility, expression and high performance.

Product Application

- Commercial, institutional and residential buildings
- Integrates with renewable energy strategies
- Long life cycle, low maintenance

Performance Data

- ENERGY STAR, LEED, CRRC and CA Title 24
- ASTM E-1592 compliant
- Miami-Dade County approved



metalsales.us.com
800.406.7387 | inspired@metalsales.us.com

SNAP 139

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

INSULATED METAL ROOF PANELS

WR | GREEN

MBCI

MBCI's eco-FICIENT® line offers three insulated metal roof panels, CFR, Insulated BattenLok® and Insulated R Panel.

Product Application

- Davidson Center for Space Exploration, Huntsville, AL
- West Cobb Aquatic Center, Powder Springs, GA
- Swenson Tech, Harvey, IL

Performance Data

- Insulation comes in a variety of thicknesses from 1.5 in. to 6 in.
- R-value varies up to 8.5/in. of panel thickness at 40°F mean temperature



www.mbci.com
877.713.6224

Booth: 3029 AIA Expo

SNAP 140

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

STATE-OF-THE-ART HEALING AT CANCER CENTER

Dri-Design Inc.

Dri-Design is an advanced and sophisticated metal wall panel system...made simple.

Product Application

- Alice & Carl Kirkland Cancer Center in Jackson, TN
- Tapered Series panels in painted aluminum
- Fastest, easiest application on the market

Performance Data

- True dry-joint rainscreen system—100% recyclable
- Exceeds performance specifications of AAMA 508-07 and Dade County



www.dri-design.com
616.355.2970 | sales@dri-design.com

SNAP 141

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

SHAKE SHINGLE

$$$

CertainTeed Roofing

Presidential™ asphalt shingles that replicate the sculpted dimensional form of cedar shakes, with the performance of fiberglass construction.

Product Application

- Patented cut allows combination of two colors to create dozens of color patterns
- Two-piece laminated fiberglass base construction
- 355 lb per square

Performance Data

- UL Class A fire resistance; certified to meet ASTM D3462, ASTM 3018 Type I
- ASTM D3161, Class F, 110 mph wind resistance



www.certainteed.com/products/roofing
800.233.8990 | Alexandre Pecora

SNAP 142

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

ARCHITECTURAL PRECAST CONCRETE CLADDING PANELS

GREEN | WR

Easi-Set Worldwide

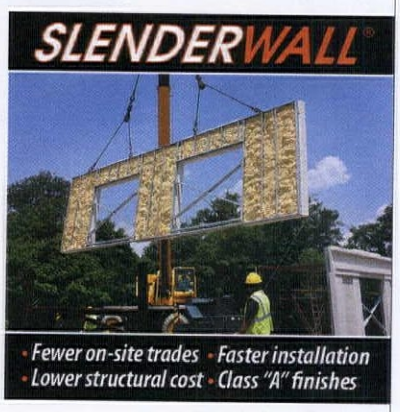
Ultra Hi-Performance Slenderwall is a 28 lb/sf award-winning architectural precast concrete and steel-stud exterior panel system wind-load tested to 226 mph.

Product Application

- BioInnovation Center, New Orleans, LA
- Johns Hopkins Hospital, Baltimore, MD
- Westin Luxury Hotel, Virginia Beach, VA
- US Army Legal Headquarters, Ft Belvoir, VA

Performance Data

- Factory-installed continuous closed-cell foam insulation – ASTM C-1363 hot box tested and compliant with all IECC/ASHRAE energy conservation codes



www.SlenderWall.com
800.547.4045 | info@easiset.com

SNAP 143

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

PRODUCT AUGMENTATION

MORIN, A Kingspan Group Company

MorZip now offered in both natural AND painted metals: copper, zinc, stainless steel, bare aluminum, painted aluminum and Galvalume.

Product Application

- Dual-purpose roof and wall
- Convex lay-down or mechanical curves
- Tapered panels, both curved and straight

Performance Data

- Mechanically seamed sidelap for unsurpassed weathertightness down to 1/4:12
- Jobsite rollformed panels in continuous lengths available to eliminate panel end laps



www.morincorp.com
800.640.9501 | lorirm@morincorp.com

SNAP 144

ROOFING, SIDING, THERMAL & MOISTURE PROTECTION

DOUBLE UP ON DURABILITY

$$ | GREEN | NEW

Alcoa Architectural Products

Reynobond NC panels enable you to marry the flatness and stiffness of ACM with the dent resistance and recyclability of sheet metal.

Product Application

- Ideal for enhanced stability and use in large cassette and panel applications
- Suitable for façades with high technical, visual and environmentally friendly requirements

Performance Data

- Consistent coil-coated finish with a 30-year warranty
- Available in sheet sizes up to 62 in. wide and 20 ft in length, with superior dent resistance



reynobond.com/nc
800.841.7774 | Customer Service Department

Booth: 2237 AIA Expo

SNAP 145



Evolution™

Thermal and Moisture Protection

Thermal and Moisture Protection Roof and Wall Panels

Division 7 Thermal and Moisture Protection Specification Section 07411 - Manufactured Roof Panels

The Overly *Evolution* metal wall and roof system is without raised batten or standing seams and exposed fasteners. The system consists of a hidden drain channel, compression bar, cover cap and cladding sheets. The smooth, contemporary design appears monolithic when viewed from just a short distance. It's an 'Evolution' to all the standard metal wall and roof systems available throughout the history of the industry.

Applications

The Overly *Evolution* system can be installed on sloped roofs and vertical walls. Panels can be curved and/or tapered for barrel vaults and domes or spherical shapes. The system features hidden fasteners and an internal drainage component which removes any moisture that migrates into the system and skillfully designed joints which allow for expansion and contraction. The system is the exterior exposed component of a wall/roof composite assembly. Several composite assemblies are available ranging from thin to thick as determined by aesthetic preferences or as necessary to meet performance requirements such as thermal, structural and fire ratings.

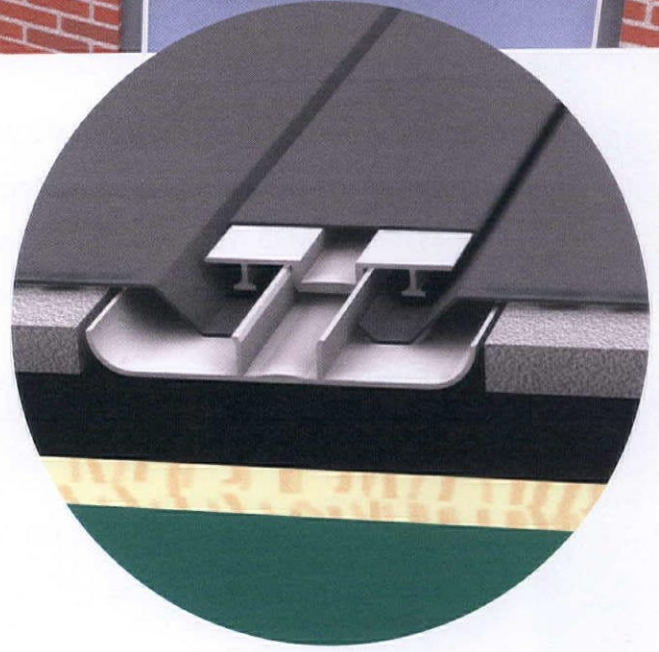


Materials

- Aluminum Alloy 3003-H14, Standard Thickness 18 gauge (.040")–16 gauge (.050") available in painted K500 finishes, brushed and mill finishes
- Stainless Steel type 304 and type 316, 24 gauge (.024") –20 gauge (.036") available in 2B, 2D, #4 and several custom directional and non-directional finishes
- Titanium Grade 1, gauges .018"–.024" available in standard mill or matte finishes
- Zinc, gauge .028"–.032" available in natural or pre-weathered finishes
- Recycled content varies upon material selected. 100% recyclability of all metal components

System Design Data

- Width of Compression Cover: 2.75"
- Mininum/Maximum Spacing between Compression Covers: 12"–48"
- Maximum Length of Panels: 40'
- Compression Extrusion Thickness: .056"
- Channel Extrusion Thickness: .056"
- Test data in accordance with ASTM E 283, ASTM E 330, ASTM E 331 and UL 580 (Class 90 available upon request)



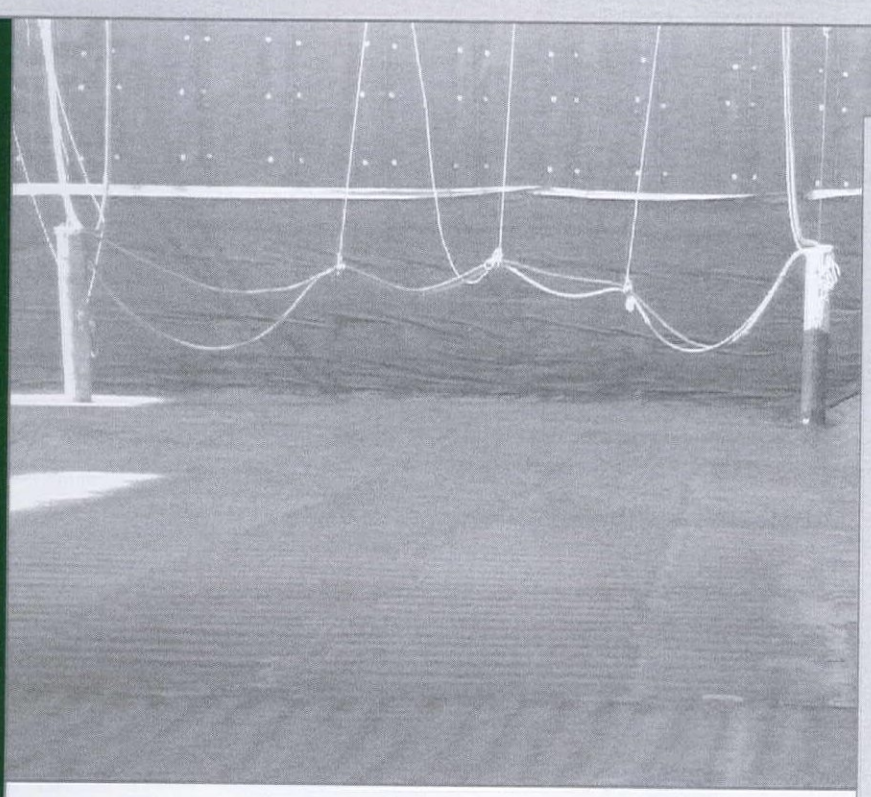
It's more than metal...*it's personal.*

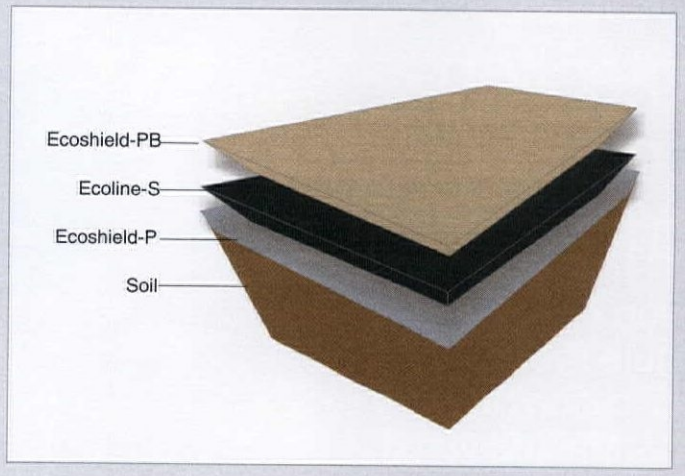
OVERLY

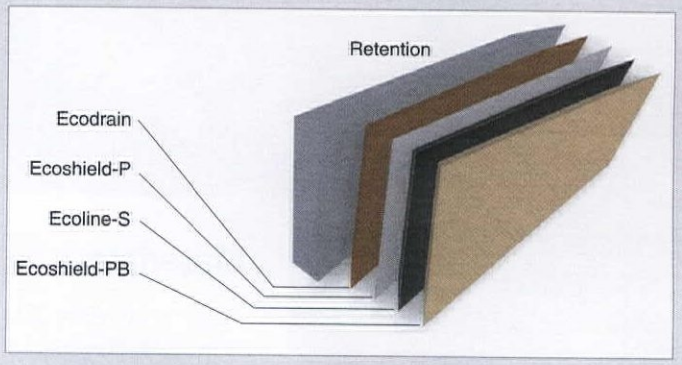
MANUFACTURING COMPANY

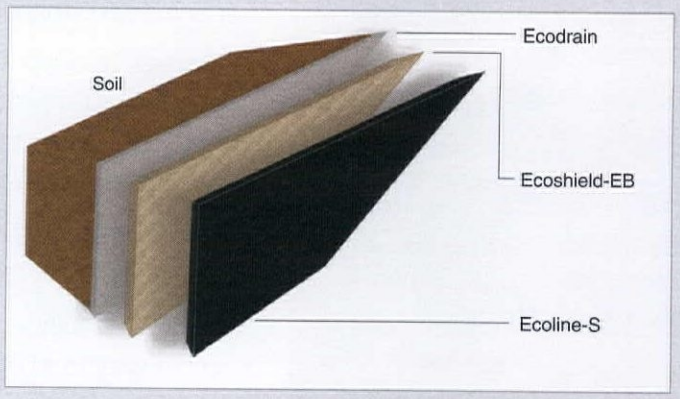
P.O. Box 70
Greensburg, PA 15601-0070 USA
Phone: (724) 834-7300
Fax: (724) 830-2877
E-mail: overly@overly.com
Website: www.overly.com

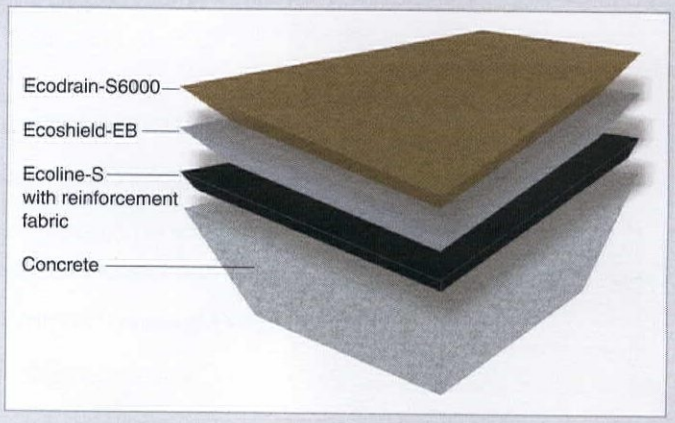
Epro's Fully Integrated Field Installed Composite Waterproofing System Provides the Most Protection, Fastest Installation, Lowest Cost and Best Warranty in the Industry Today!











Four New Field Installed Systems Available ...

- System III CWB Concrete / CMU Wall Waterproofing
- System III RDB Roof / Deck Waterproofing
- System III MBB Waterproofing / Gas Barrier
- System III LWB Blindside Waterproofing / Gas Barrier

Excellent Strength and Chemical Resistance - the result of the unique field installed composite system design utilizing HDPE.

Seamless - The highly flexible spray or fluid applied membrane forms a monolithic barrier.

Exceptional Adhesion - The sprayed or fluid applied membrane bonds tenaciously to almost any substrate in almost any condition including green concrete or a damp substrate.

Self Sealing - The bentonite layers seal at any penetration of the system.

Redundant Protection - Multiple waterproofing protection courses and drainage plane.

epro™ Waterproofing Systems

A WORLD OF DIFFERENCE FOR REAL WORLD CONDITIONS

800-882-1896 • www.eproserv.com

SNAP 279



Schluter® Systems

Schluter®-DITRA

Uncoupling membrane for tiled floors

- Ensures the lasting beauty and functionality of tiled floors
- Prevents the main cause of cracked tiles
- Waterproof to protect your subfloor
- Lightweight alternative to cement backerboard
- Easy to handle and transport
- Cuts with utility knife or scissors (no saws and no dust)
- Quick and easy to install
- No-nonsense warranty

Warm it up!

Schluter®-DITRA-HEAT
Electric floor warming system with integrated uncoupling



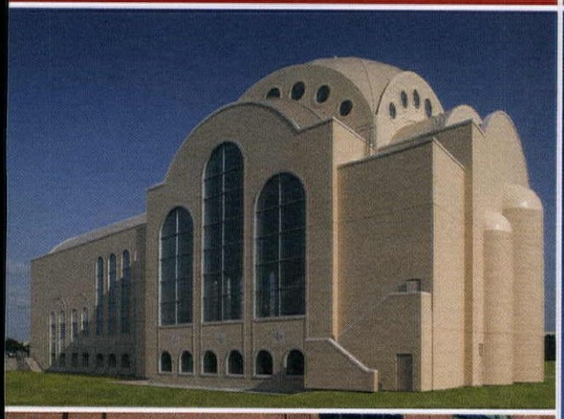
www.schluter.com | 800-472-4588

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YouTube

SNAP 305

BELDEN
THE BELDEN BRICK COMPANY

BRICK -
THE MATERIAL OF CHOICE FOR CENTURIES













The Standard of Comparison since 1885

An ISO 9001 Compliant Quality Management System.

An ISO 14001 Compliant Environmental Management System.

SNAP 254

The Standard of Comparison Since 1885

As Belden Brick gets ready to celebrate 130 years of brick making in 2015 the family tradition continues toward providing the preeminent product in the brick industry. Belden provides more colors, textures, sizes and shapes than any other brick company in the US.

If you're thinking about brick ... ask for Belden Brick!

beldenbrick.com | 330.456.0031

PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	81-84
Interior Finishes, Furnishings	Pgs.	89-90
Roofing, Siding, Thermal & Moisture Protection	Pgs.	95-96
MATERIALS	**PGS.**	**101-102**
Electrical, Lighting	Pgs.	105
Equipment	Pgs.	109-110
Mechanical Systems, HVAC, Plumbing	Pgs.	115
Landscaping, Sitework	Pgs.	117
Specialty Products	Pgs.	123-132

MATERIALS

NATURAL QUARRIED STONE

WR | GREEN

Krukowski Stone Co., Inc.

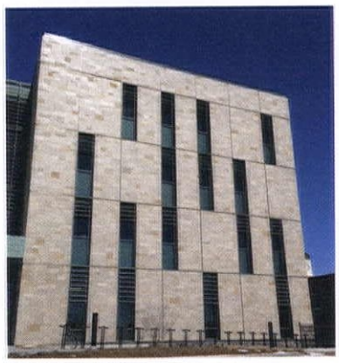
Featuring: Cambrian Cream thermal cladding panels, accented with split-face and bed-face panels.

Product Application

- Cambrian Cream or Aqua Grantique
- Available textures: brushed, honed, polish, thermal, shot-blast, split-face, seamface and corduroy

Performance Data

- Avail. thickness ≤ 3/4 in., 3 cm, 2-1/4 in. and 3-1/2 in.
- Sustainable, highly durable, low-maintenance natural stone quarried and manufactured in Wisconsin



www.krukowskistone.com
715.693.6300 | Joanie Krukowski-Whitt

SNAP 146

MATERIALS

MINNESOTA STONE

$$ | GREEN

Vetter Stone

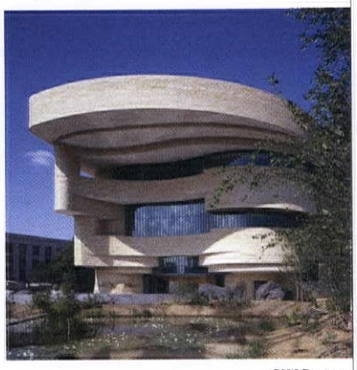
Minnesota Stone is a dolomitic limestone known for its great strength and warm, inviting earth tone colors.

Product Application

- Smithsonian National Museum of the American Indian, Washington, DC
- United States Embassy, Moscow, Russia
- Roppongi Hills, Osaka, Japan

Performance Data

- High-performance dolomitic limestone



www.Vetterstone.com
507.345.4568 | Ron Vetter

SNAP 147

MATERIALS

NATURAL STONE PANELS

$$ | GREEN

Biesanz Stone Company

For more than 25 years, Biesanz Natural Stone Panels have provided users an alternative to manufactured concrete (precast) and handset masonry products. Nearly 30% the weight of precast panels.

Product Application

- Washington University School of Medicine, Scott McKinley Research Building, St. Louis, MO
- Blessings Hospital, Quincy, IL
- Schreiber Foods, Green Bay, WI

Performance Data

- Use with Biesanz MDL or your stone choice



www.BiesanzStone.com
507.454.4336 | Darrell Stahlecker

SNAP 148

MATERIALS

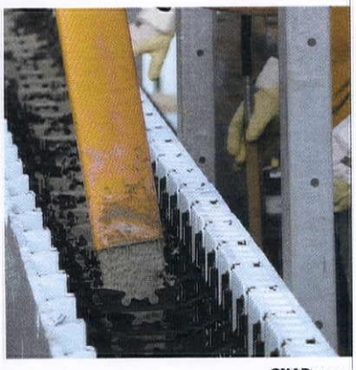
INSULATED CONCRETE FORMS

NUDURA Corporation

ICFs from NUDURA provide an innovative and efficient way to build or renovate. Building with NUDURA ICFs allows homes to be built faster, stronger, more energy efficient and environmentally friendly.

Performance Data

- Disaster resilient construction
- Maximum energy efficiency
- Industry-leading innovation



www.nudura.com
866.468.6299

SNAP 149

MATERIALS

PERFECT PAVER PALETTE

$$$

Belden Clay Pavers

The Belden Brick Company offers you more options in clay pavers than anyone in the world. You can choose from the widest palette of colors, textures and sizes.

Product Application

- Carmel City Center
- Architect: Pedcor Design Group, LLC
- General contractor: Smock Fansler Corp

Performance Data

- An ISO 9001:2008 Registered Quality Management System
- An ISO 14001:2004 Environmental Management System



www.beldenbrick.com
330.456.0031

SNAP 150

MATERIALS

AUTHORITATIVE SOURCE ON MAPLE FLOORING INFORMATION

Maple Flooring Manufacturers Association

MFMA is a trade association which establishes product quality, performance and installation guidelines, educates end users and promotes the use of maple flooring worldwide.

Product Application

- Elementary / high school / university sports floors
- Rec centers
- Arenas
- Performing arts
- Commercial / industrial



www.maplefloor.org
888.480.9138

Booth: 1348 AIA Expo

SNAP 151

MATERIALS

QUALITY CLAY MASONRY UNITS, UNIQUE COLORS

Endicott Clay Products Co.

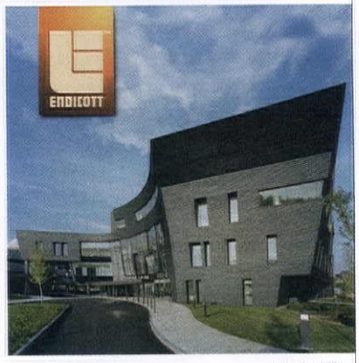
Face brick, thin brick, tile and pavers. A variety of sizes in a unique palette including exclusive Ironspot colors and endless special shapes.

Product Application

- Yale Health Center, New Haven, CT (at right)
- Prudential Center (arena), Newark, NJ
- Target Corporation Headquarters, Minneapolis, MN

Performance Data

- Meets or exceeds ASTM standards
- Backed by a large BIM catalog



www.endicott.com
402.729.3315 | Gary Davis

SNAP 152

All products in this section are accessible on sweets.com.

$$$**= Premium cost | **$$**= Mid-range cost | **$= Value-oriented cost | **WR** = Wide range of price points | **NC**= No charge
G = Product marketed as green | **NEW** = Released in the past 12 months

MATERIALS

BUILDING STONE

WR | GREEN

Arriscraft

Designed for quick installation, Urban Ledgestone can install in a coursed pattern (one stone after another). This modern stone features long, sleek lengths in three sizes and two colors.

Product Application

- Commercial and residential
- Interior and exterior applications

Performance Data

- Meets the reqs of ASTM C73
- Compressive strength, durability, dimensional tolerances within range of quality limestone (ASTM C568) and sandstone products (ASTM C616)

www.arriscraft.com
800.265.8123



SNAP 153

MATERIALS

PROTECTION BUILT INTO EVERY WALL™

ToughRock® Fireguard 45™ Gypsum Board

The only available standard 1/2-in. wallboard to be enhanced with fire resistance properties approved for 45-minute UL-classified fire-rated wall assemblies.

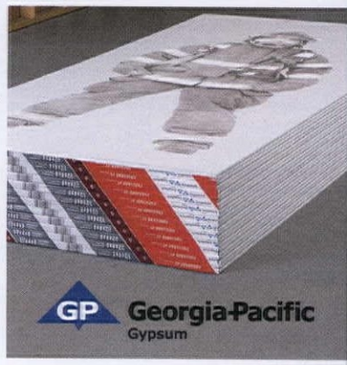
Product Application

- Replace standard or lightweight 1/2-in. wallboard with ToughRock® Fireguard 45™ Gypsum Board to increase a home's fire resistance

Performance Data

- Performs longer than competing lightweight 1/2-in. drywall in fire testing. Source: WFCI Report #14083.

www.buildgp.com/snap45
800.225.6119



SNAP 154

MATERIALS

CELLULOSE ACOUSTICAL PANELS

$

Acoustical Surfaces, Inc.

CFAB™ cellulose panels consist of an industry-first cellulose-based material—a green solution for acoustical materials. CFAB is an innovative, yet sustainable alternative to traditional panels.

Product Application

- Industrial, residential, commercial, pro audio
- Offices, community centers, meeting rooms
- Schools, auditoriums, churches
- Anywhere high-performance noise control is needed

Performance Data

- Class A fire rated • Reduces airborne sound
- Controls & deadens sound • 65-75% recycled content

www.acousticalsurfaces.com
800.448.0121 | sales@acousticalsurfaces.com



SNAP 155

MATERIALS

RECYCLED GLASS FACADE MATERIAL W/ CONCEALED ANCHOR

NEW | WR | GREEN

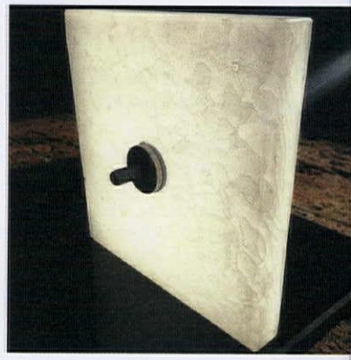
Probe/Fischer ACT Rainscreen System

Recycled glass facade material available in various colors and panel sizes to create a unique zero-joint facade. Combine with many aluminum support systems including anodized in a variety of colors.

Product Application

- Perfect for use in exterior cladding
- Performs well with rainscreen designs
- Being used in Passivehouse construction

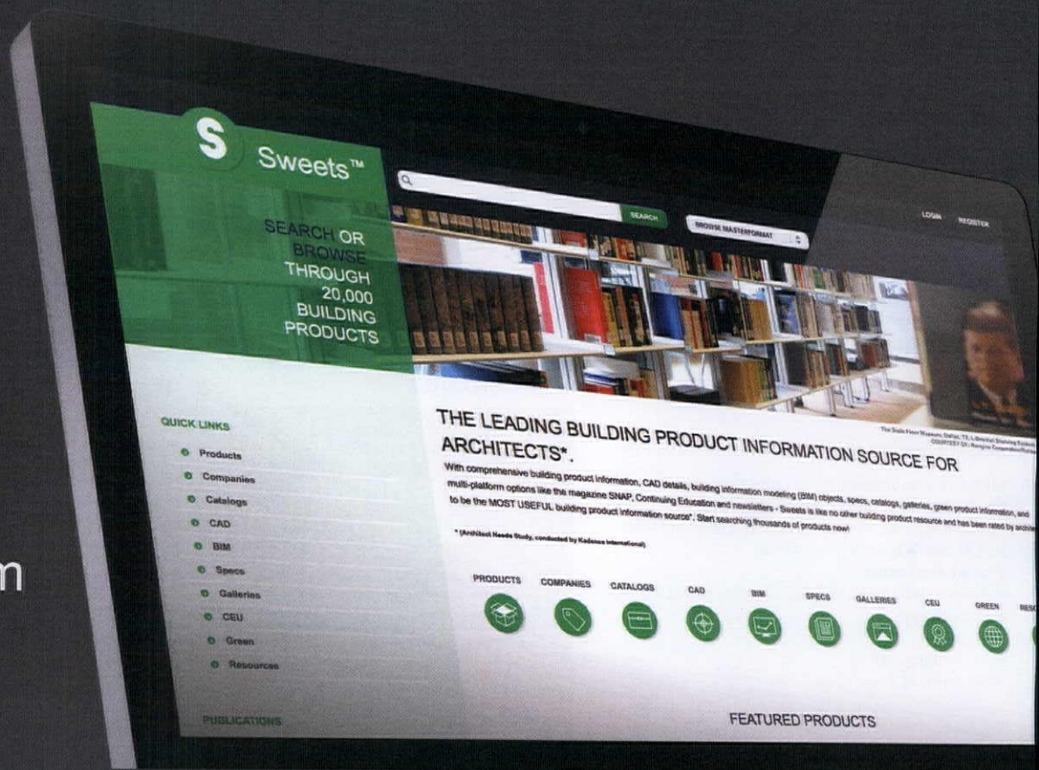
www.probefacadesystems.com
973.831.1761 | louisa@probefacadesystems.com



SNAP 156

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Tile & Stone Installation and Care Systems

DRYTEK
Concrete Restoration and Care Systems

LATICRETE SUPERCAP®
The Next Generation Slab®
LATICRETE® SUPERCAP® System

MVIS™
Masonry Installation and Care Systems

HP SPARTACOTE
Patented High Performance Polyaspartic Coating System
Resinous/Decorative Finishes

L&M™ Construction Chemicals, Inc.
Concrete Construction Chemicals

Snap for video

Snap for more information

SNAP 280

So much more than tile and stone installation materials

www.laticrete.com | 1.800.243.4788

LATICRETE®
Globally Proven Construction Solutions

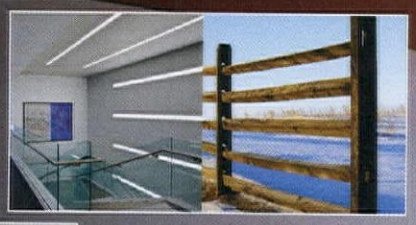
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EDGE Evolutio

Narrow apert
lighting incompara
in form and flexibi

What's
Your
Design
Ambition?







www.pinnacle-ltg.com

PINNACLE
ARCHITECTURAL LIGHTING

SNAP 304

PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	81-84
Interior Finishes, Furnishings	Pgs.	89-90
Roofing, Siding, Thermal & Moisture Protection	Pgs.	95-96
Materials	Pgs.	101-102
ELECTRICAL, LIGHTING	**PGS.**	**105**
Equipment	Pgs.	109-110
Mechanical Systems, HVAC, Plumbing	Pgs.	115
Landscaping, Sitework	Pgs.	117
Specialty Products	Pgs.	123-132

ELECTRICAL, LIGHTING

ELECTRIC VEHICLE CHARGING STATIONS

WR | GREEN

SemaConnect, Inc.

The ChargePro Electric Vehicle Charging Station comes bundled with free station management software, giving owners a full turn-key solution for deploying a program at your property.

Product Application

- Commercial real estate
- Multifamily
- Retail



www.semaconnect.com
301.352.3730

SNAP 157

ELECTRICAL, LIGHTING

MULTIFUNCTIONAL A/V CEILING BOX

Legrand

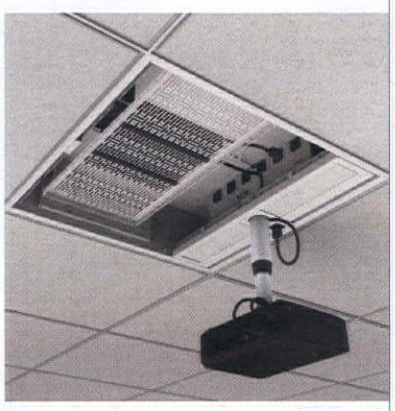
Innovative AV Ceiling Boxes provide capacity, internal cooling, projector support and can also interface with building control systems.

Product Application

- Conference rooms
- Classrooms
- Training facilities

Performance Data

- Controllable internal receptacles
- Can be serviced or modified while mounted in ceiling



www.legrand.us
877.295.3472

SNAP 158

ELECTRICAL, LIGHTING

CONTEMPORARY CEILING FANS

$$ | GREEN | NEW

The Modern Fan Co.

A collection of contemporary ceiling fans aimed at the professional specifier and design-minded homeowner alike.

Product Application

- 50 UN Plaza Fed Bldg (San Francisco, CA)
- LA Fitness (multiple locations)
- Skechers (multiple locations)

Performance Data

- Contract-quality construction
- Highly efficient contribution to thermal comfort
- Destratification and circulation of air



www.modernfan.com
541.482.8545

SNAP 159

All products in this section are accessible on sweets.com.

$$$**= Premium cost | **$$**= Mid-range cost | **$= Value-oriented cost | **WR** = Wide range of price points | **NC**= No charge
G = Product marketed as green | **NEW** = Released in the past 12 months



photo courtesy of Karie Denny // Ace and Whim



WHERE VINTAGE AND MODERN COLLIDE®

visit www.barnlight.com | *call* (321) 567-5308

SNAP 255

BARN LIGHT ELECTRIC



Jim Alesci's Place - Solon, Ohio

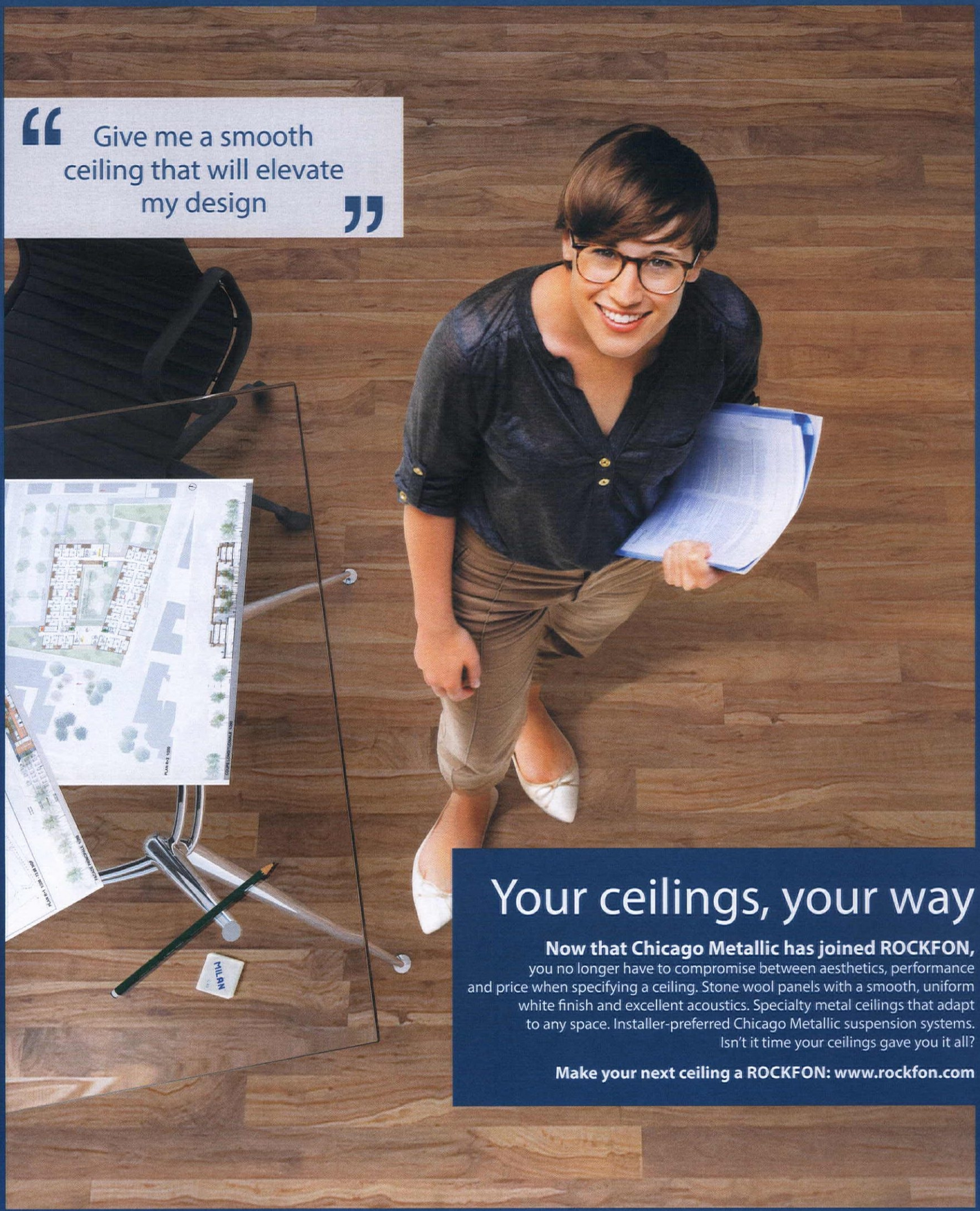
BockLighting

BOCK LIGHTING RLM

RLM Series

Reflectors are precision spun aluminum or steel, finished in thermally cured high quality polyester powder coat paint. Reflectors are available in a variety of different color options. Comes standard in white powder coated inside, which has at least 85% reflectance. Turned in bottom bead adds strength and prevents the collection of dirt and water. LED, CFL options available.

www.BockLighting.com - P: (866) 262-5740



Your ceilings, your way

Now that Chicago Metallic has joined ROCKFON, you no longer have to compromise between aesthetics, performance and price when specifying a ceiling. Stone wool panels with a smooth, uniform white finish and excellent acoustics. Specialty metal ceilings that adapt to any space. Installer-preferred Chicago Metallic suspension systems. Isn't it time your ceilings gave you it all?

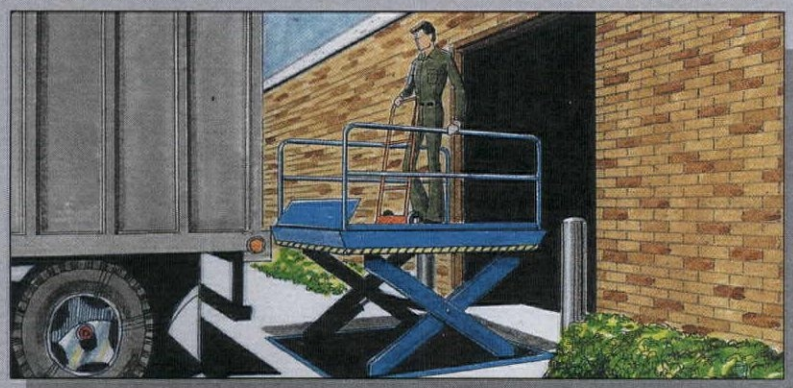
Make your next ceiling a ROCKFON: www.rockfon.com

ROXUL Rockfon®

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DISAPPEARING DOCK LIFT



NOW YOU SEE IT



NOW YOU DON'T

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- **LIFT SPECIFICATIONS SHEETS**
- **ARCHITECTURAL SPECIFICATIONS**
- **PIT & PAD DRAWINGS**

AVAILABLE AT ADVANCELIFTS.COM

ISO UL made in USA

SNAP 256

1-800-843-3625

PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	81-84
Interior Finishes, Furnishings	Pgs.	89-90
Roofing, Siding, Thermal & Moisture Protection	Pgs.	95-96
Materials	Pgs.	101-102
Electrical, Lighting	Pgs.	105
EQUIPMENT	**PGS.**	**109-110**
Mechanical Systems, HVAC, Plumbing	Pgs.	115
Landscaping, Sitework	Pgs.	117
Specialty Products	Pgs.	123-132

EQUIPMENT

ELECTRIC KILNS & POTTERY WHEELS

WR | GREEN

Skutt Ceramic Products Inc.

The Skutt KM1027-3 electric kiln has 20% more insulation, helping schools cut costs. Add KilnLink as an option and monitor your kiln from anywhere you have an internet connection.

Product Application
- Currently used in hundreds of schools nationwide

Performance Data
- UL safety listed
- Automatic controller w/ diagnostic software
- Ergonomic lid lifter included
- Avail. w/ optional downdraft fume venting system



www.skutt.com
503.774.6000 | Mike Sievers

SNAP 160

EQUIPMENT

VERTICAL STORING DOCK LEVELER

Blue Giant Equipment Corporation

VL Vertical Storing Dock Leveler:
The next level in security and energy efficiency.

Product Application
- Food, beverage and pharmaceuticals
- Environment-sensitive products

Performance Data
- Revolutionary new features that add greater levels of safety and versatility to dock operations
- Superior climate control and a cleaner, safer dock environment



www.BlueGiant.com
905.457.3900

SNAP 161

EQUIPMENT

DISHWASHER

$$ | NEW

Maytag® Home Appliances

Their Quietest Dishwasher Ever has all the cleaning power of the Maytag brand without the ruckus. They built this large-capacity dishwasher with tough stainless steel to take on the worst messes.

Performance Data
- 4-blade stainless steel chopper
- Features PowerBlast™ rinse cycle
- Premium ball-bearing rack glides
- Product SKU: MDB8969SDM



www.insideadvantage.com
800.253.1301

SNAP 162

EQUIPMENT

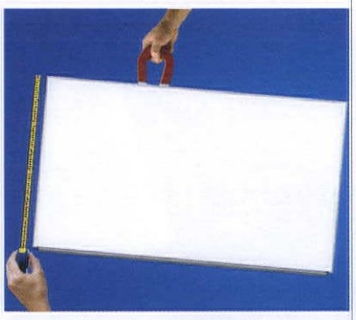
NEW IDEAS

Da-Lite

The new IDEA™ line provides optimal touch performance, and is the best screen on the market for interactivity. New standard features include a magnetic surface and thin frame.

Product Application
- Erasable
- Compatible with any dry erase marker

Performance Data
- Hotspot free



www.da-lite.com/NewIDEAs
800.622.3737 | info@da-lite.com

SNAP 163



Ballew's
ALUMINUM PRODUCTS INC



Protection and Aesthetic appeal all in one product

Ballew's Aluminum Products offers many colors and styles of overhead canopies that are fully engineered. On a storefront or loading dock, Ballew's has a cover for any application!

SNAP 282

4 locations: **Greer, SC - Southaven, MS - Oklahoma, OK - Manheim, PA**

Phone: **800-231-6666** ▪ Website: **www.ballews.com**

EQUIPMENT

NEW SERIES DOCK LIFTS

Advance Lifts

Advance Lifts is proud to announce their totally new 3400 series, which will replace the old 4100 series.

- New features include: Same capacities and platform sizes as the old 4100 lift models
- 15-in. lowered heights

- Cantilevered platform design just like the other 3000 series dock lifts
- New lower prices, which means greater value



www.advancelifts.com
800.843.3625 | michaelr@advancelifts.com

SNAP 164

EQUIPMENT

MACHINE-ROOMLESS HYDRAULIC ELEVATOR

$$

Otis Elevator Company

Otis offers the HydroFit™, a machine-roomless, holeless hydraulic elevator that gives architects true design freedom in low-rise structures.

Product Application
- Low-rise buildings up to 26 ft 6 in.
- Design freedom: no machine room required
- Save construction time and cost

Performance Data
- Energy-efficient LED lighting and sleep mode
- Industry-renowned proven reliability and uptime

HydroFit™



OTIS
United Technologies

www.otis.com
843.432.4220 | Mary Ryan

SNAP 165

EQUIPMENT

CEILING RECESSED PROJECTION SCREEN

Draper, Inc.

Draper's Access FIT projection screen is an all-new member of the Access line of projection screens that fits into tighter ceiling cavities than ever before—the case is less than 6 inches tall!

Product Application
- Case height is only 5-11/16 in.
- Self-supporting screen surfaces up to 120 in. wide
- Tab-tensioned screen surfaces up to 104 in. wide

Performance Data
- Same rugged components as other Access screens



www.draperinc.com
800.238.7999

SNAP 166

EQUIPMENT

MRL FOR MID-RISE

Schindler Elevator Corporation

New Schindler 5500 machine room-less elevator delivers flexibility, efficiency and performance.

Product Application
- Mid-rise buildings up to 350 ft (33 stops, 45 openings)
- Fits the requirements of commercial, mid- and high-end residential buildings

Performance Data
- Machine room-less design for more usable building space
- Regenerative drives use up to 30% less energy while returning energy to a building's power grid



www.us.schindler.com
973.397.6489

SNAP 167



USE THE CARD
AND WIN!



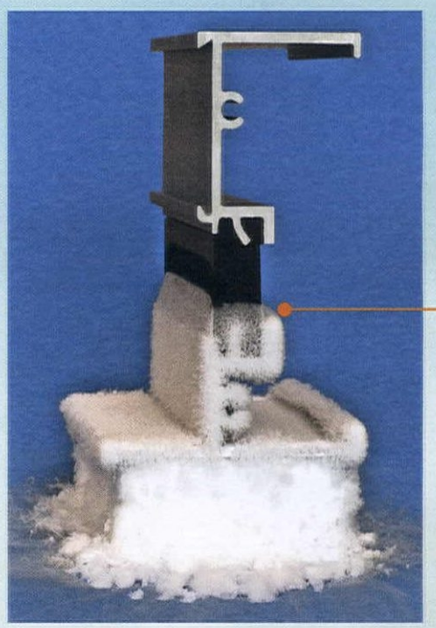
Request free product information in a SNAP with our convenient mail-in postcard and be entered to WIN one of five $100 VISA gift cards. Easy, Fast, Smart.

Drawings are random. Winners will be drawn 90 days after publication. NO PURCHASE NECESSARY. A PURCHASE WILL NOT IMPROVE YOUR CHANCES OF WINNING. TO ENTER: Mail or fax the reader service card found in SNAP or visit sweets.com for the SNAP reader service center and select products. To submit an entry by mail, mail an index card with your name, address, email address and daytime phone number to: "SNAP Reader Service Contest," Reader Service Card Processing Center, P.O. Box 5148, Buffalo, NY 14205-9993. There will be 5 winners for each issue drawn from entries received. Retail value of the VISA gift card is $100. View complete rules at construction.com/sweets/snap/contest/.

Azon Saves Energy

Daylighting systems produced with Azon structural thermal barrier technologies—the **MLP™** or **Dual Cavity**—for aluminum windows and high performance glazing components for insulating glass, will yield a fenestration system capable of upholding the highest efficiency and sustainability standards.

- Polyurethane polymer with superior insulating properties for the best balance of energy efficiency and performance
- NEW: MLP™(mechanical lock profile) and dual cavity designs for fenestration products used in the most demanding climates and conditions
- High strength for larger spans—industry's strongest thermal barrier for aluminum storefront, curtain wall and windows
- AZO/Tec® technical services with expertise in window design



Extreme cold temperatures of -100ºC (-148ºF) will not transfer through an aluminum frame with a modern pour and debridge thermal barrier (and *neither will high temperatures in very hot environments*)

CONTINUING EDUCATION AIA

1 HSW Learning Unit

1-800-788-5942 | www.azonintl.com

AZON

Learn about the role of Azon thermal barriers in energy conservation.

SNAP 302

PROJECT IN A FLOOD ZONE

SMART VENT® MAKES IT EAS

NEW Spotlight PRODUCT

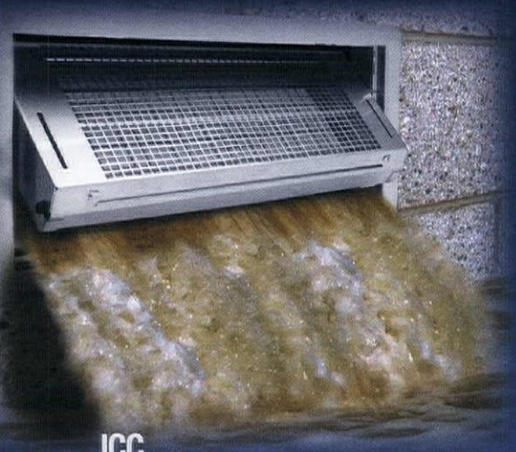


1540-150202E

NEW, RIGID, ONE PIECE DESIGN

SMART VENT®
Foundation Flood Vents

PROVIDES 800 SQ. FT. OF FLOOD VENTING PROTECTION



- No assembly required prior to installation.
- Frame packaged seperately from doors, allowing for frame installation right out of the bo
- CAD and BIM Files available online.
- Marine Grade 316 Stainless Steel.
- Made in the USA.

WHEN SPECIFYING, USE MODEL NUMBER **1540-150202E,**
SELECT THE STYLE OF FLOOD DOOR DESIRED.

DUAL FUNCTION: 1540-0039 INSULATED: 1540-0239

STANDARD AND CUSTOM POWDER COAT OPTIONS AVAILABLE:

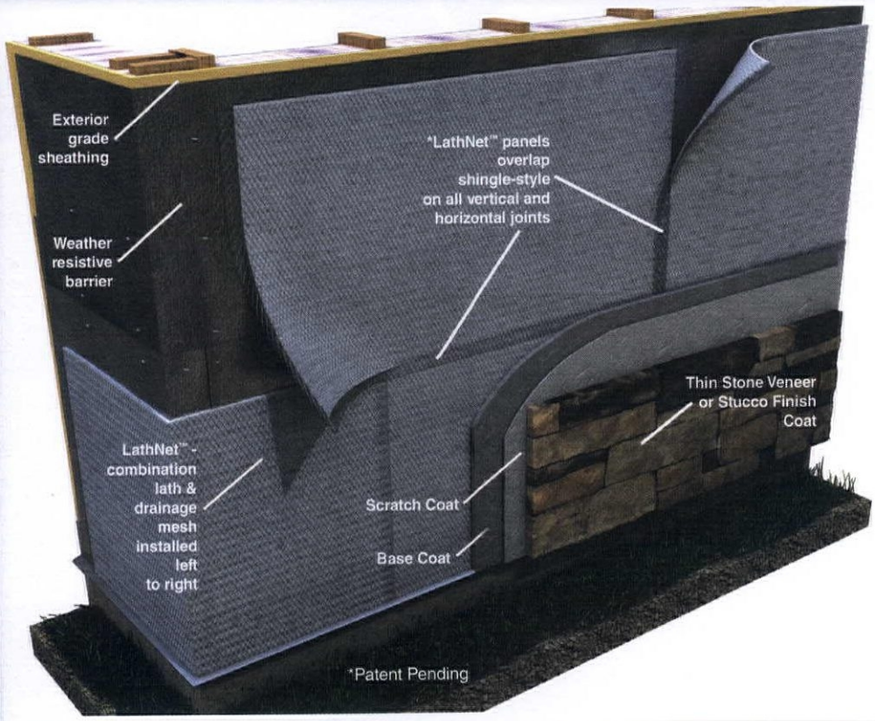
BLACK WHITE GRAY WHEAT

ICC ES FEMA Accepted
ICC-ES Certified. ESR-2074

SNAP 308

fre FLOOD RISK EVALUATOR **NEED ASSISTANCE?** Call a **SMART VENT** Certified Floodplain Manager at (877) 441-8368 or visit *www.smartvent.co*
LOOKING TO EARN CE CREDITS? Take one of our course online at McGraw-Hill's Continuing Education Cent

NEW *LathNet™ - Drainage Mesh and Metal Lath in One



LathNet™

For Stucco and Adhered Masonry

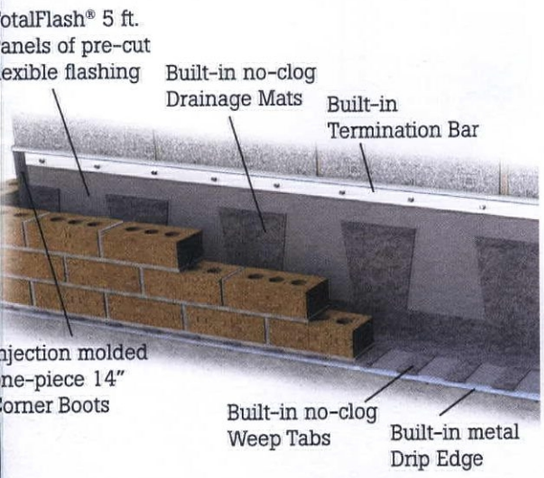
Install the metal lath and drainage plane in one simple step

- > Reduces labor time and costs
- > Reduces wall penetrations
- > Installs and performs just like regular metal lath
- > Walls dry fast, stay drier than with lath alone

Call or email for samples:
technicalservices@mortarnet.com

800.664.6638
mortarnet.com

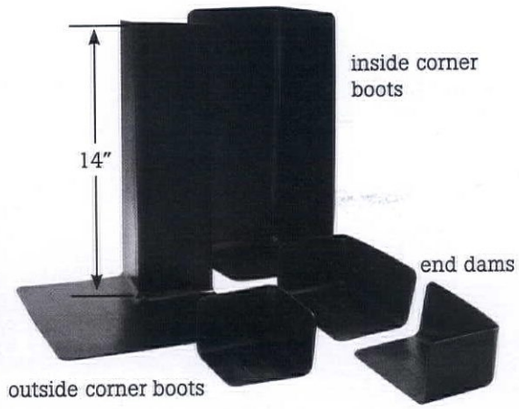
Mortar Net SOLUTIONS



TotalFlash® - Complete Masonry Cavity Wall Drainage Solution

uts Flashing System Installation Time,
elps Keep Veneer Walls Dry

- 5' (net) panels with flashing membrane, drainage mat, weep tabs, termination bar and drip edge
- Applicable in all flashing locations, including base of wall, parapet walls, and above bond beams, wall openings and structural steel members
- Perfect for new construction and masonry restoration
- Available in EPDM, TPO, SR and PVC stabilized with Elvaloy® KEE

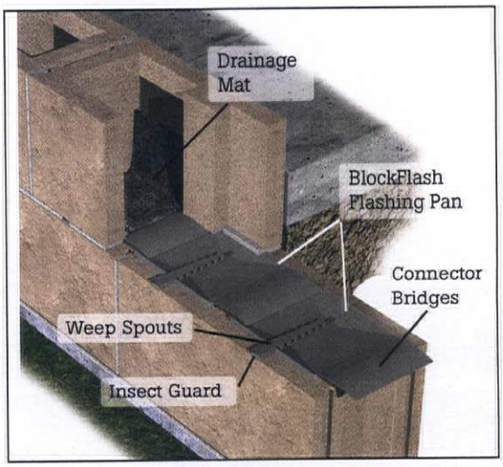


CompleteFlash - Industry-First 14" High Corner Boots, only from Mortar Net Solutions

The only corner boots that extend above standard flashing

- > One-piece, injection molded
- > Highly puncture-resistant to prevent leaks
- > Available in synthetic rubber/polypropylene blend (SR), TPO and PVC stabilized with Elvaloy® KEE

Inside and outside corner boots, right, left and universal end dams available.



BlockFlash® – The Only Embeddable Flashing Solution For Single-Wythe CMU Walls

- > Sloped pans with integrated weep spouts collect and channel moisture out of the wall
- > Up to 50% faster installation than through-wall flashing
- > Included drainage mesh prevents mortar damming
- > 10X stronger block bond than through-wall flashing
- > Snap-off connector bridge for easy installation at grouted cells and corners
- > Integrated insect guards keep bugs out

Mortar Net SOLUTIONS

326 Melton Road
Burns Harbor, Indiana 46304
Phone: 800.664.6638
Fax: 219.787.5088

No machine room. No control room. All you need is a hoistway.

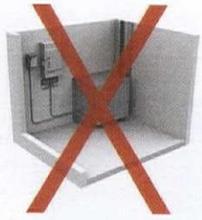
What will you do with the extra room?

Otis is proud to offer two great choices for design freedom.

The Gen2® and HydroFit™ elevator systems eliminate the need for machine and control rooms. With this extra room, you now have an array of new possibilities for your building space.



GeN2®



No machine room
No control room



HydroFit™

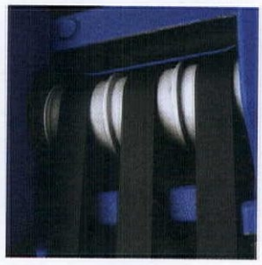
The Otis Gen2 and HydroFit systems are produced in our Florence, SC facility. These innovative products offer the following benefits:



Design Freedom



Green Technology



Smoothest Ride



Proven Reliability

Learn more at www.us.otis.com

SNAP 283

OTIS

United Technologies

PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	81-84
Interior Finishes, Furnishings	Pgs.	89-90
Roofing, Siding, Thermal & Moisture Protection	Pgs.	95-96
Materials	Pgs.	101-102
Electrical, Lighting	Pgs.	105
Equipment	Pgs.	109-110
MECHANICAL SYSTEMS, HVAC, PLUMBING	**PGS.**	**115**
Landscaping, Sitework	Pgs.	117
Specialty Products	Pgs.	123-132

MECHANICAL SYSTEMS, HVAC, PLUMBING

INFECTION-CONTROL SINK

NEW

Willoughby Industries

Designed to minimize splattering & reduce the spread of infectious disease, WICS Series infection-control sink keeps water from splashing directly into the drain & aerosolizing contents in trap.

Performance Data
- Seamless one-piece solid-surface lavatory deck
- Offset drain position w/ indirect path to drain
- Oversized backsplash
- Wrist blade or infrared faucet
- Stainless steel shroud



www.willoughby-ind.com
800.428.4065 | willoughby@willoughby-ind.com

SNAP 168

MECHANICAL SYSTEMS, HVAC, PLUMBING

IN-SINK DRAIN SYSTEM

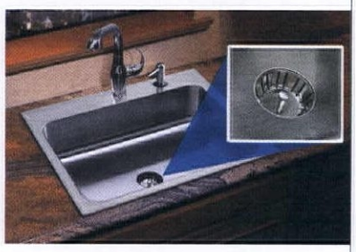
$$ | GREEN | NEW

Just Manufacturing

Integra Drain – seamlessly welded to sink, creates integral drain in-sink system, without additional parts or rings. Reduces lead potential. Includes basket strainer and tailpiece.

Product Application
- Commercial and residential applications

Performance Data
- Integral seamless sanitary drain system
- Heavy-gauge stainless strainer
- Shown with JPO-8500 single-handle kitchen faucet with pull-out spray



www.justmfg.com/Integra-Drain
847.678.5150 | Specifier Services

SNAP 169

MECHANICAL SYSTEMS, HVAC, PLUMBING

BARRIER-FREE TUB/SHOWER RECEPTORS

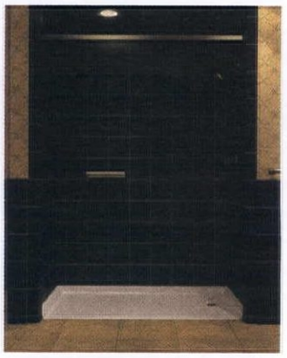
$$

Florestone Products Co., Inc.

Florestone one-piece molded fiberglass shower receptors. Slip-resistant floor with off-set drain. Standard and barrier-free threshold option.

Product Application
- Bathroom remodeling projects with a conversion from a standard bathtub to a shower floor
- No relocation of plumbing connection is required

Performance Data
- Cost-saving solution for bathroom remodels
- Easily replaces existing tub with no need to redo plumbing or move any walls



www.florestone.com
800.446.8827 | David Sotelo

SNAP 170

MECHANICAL SYSTEMS, HVAC, PLUMBING

SHOWER DRAIN SECURED WITH MAGNETS

Infinity Drain – Made in the USA

NEW from 5-in. square drain strainers for shower or outdoor applications. Four patterns available. Manufactured in Long Island, New York.

Product Application
- Strainer secured with magnets
- Finish options: satin stainless steel, polished stainless steel, oil rubbed bronze
- Residential and high flow capacity available

- Buildings NY – Booth #226
- HD Expo – Booth #5470
- Dwell on Design – Booth #1859



InfinityDrain.com/Products-G-Series
516.767.6786 | Info@InfinityDrain.com

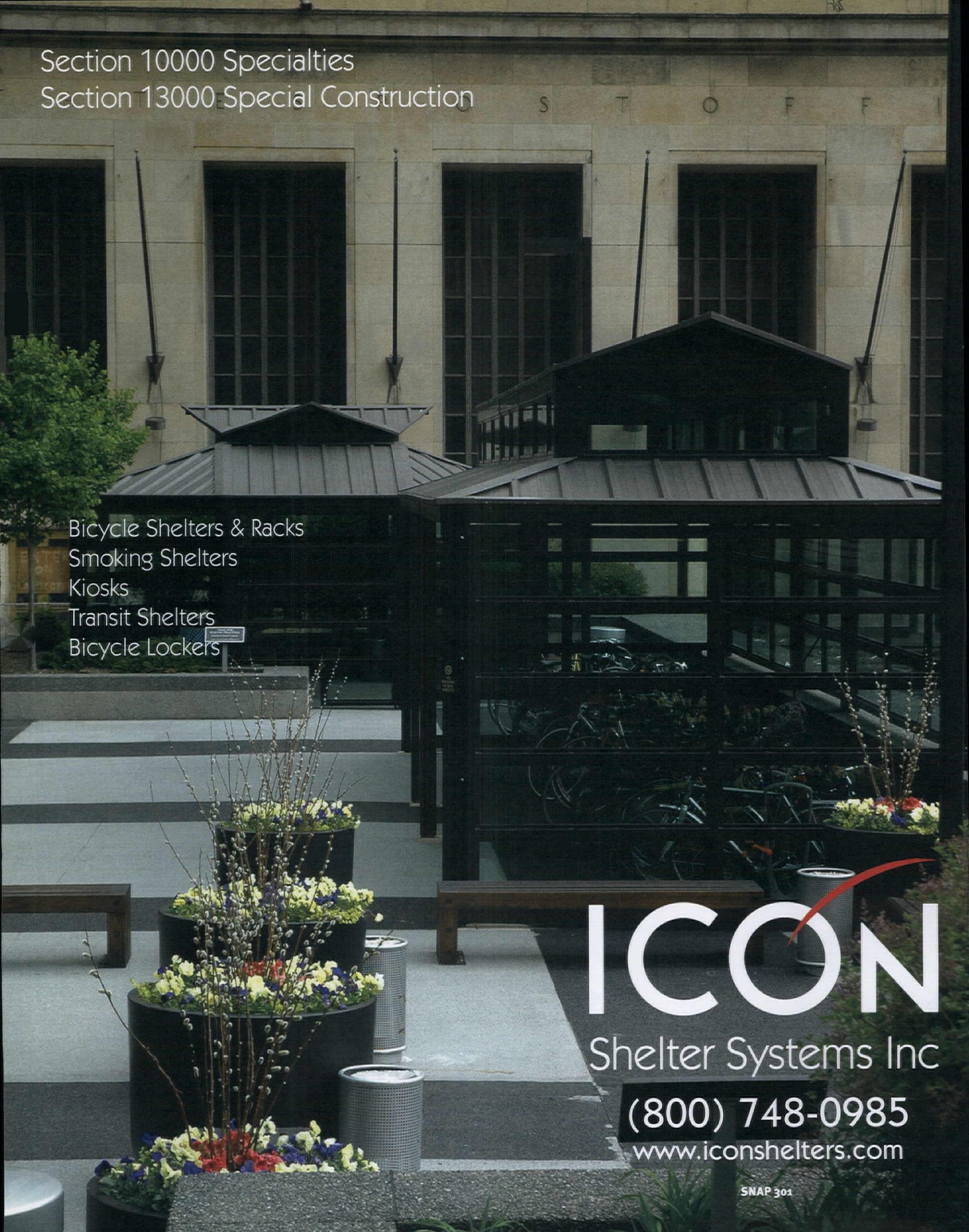
SNAP 171





All products in this section are accessible on sweets.com.

$$$**= Premium cost | **$$**= Mid-range cost | **$= Value-oriented cost | **WR** = Wide range of price points | **NC**= No charge
G = Product marketed as green | **NEW** = Released in the past 12 months


Section 10000 Specialties
Section 13000 Special Construction
Bicycle Shelters & Racks
Smoking Shelters
Kiosks
Transit Shelters
Bicycle Lockers
ICON
Shelter Systems Inc
(800) 748-0985
www.iconshelters.com
SNAP 301

PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	81-84
Interior Finishes, Furnishings	Pgs.	89-90
Roofing, Siding, Thermal & Moisture Protection	Pgs.	95-96
Materials	Pgs.	101-102
Electrical, Lighting	Pgs.	105
Equipment	Pgs.	109-110
Mechanical Systems, HVAC, Plumbing	Pgs.	115
LANDSCAPING, SITEWORK	**PGS.**	**117**
Specialty Products	Pgs.	123-132

FIBERGLASS FENCE SYSTEMS

$$ | GREEN

F&F Composite Group, Inc.

Maintenance-free, weatherproof, waterproof, fiberglass fence systems, three times tensile strength of steel, variety of colors, non-conductivity, lifetime warranty, green.

Product Application
- Kona International Airport, HI
- Hurst Conference Center, Hurst, TX
- US AFB, Portugal
- Alcoa, Washington

Performance Data
- Highest strength in a fence product
- Sustainable, no maintenance

www.fiberfence.com
817.379.4411 | Suzanne Seely



SNAP 172

BICYCLE SHELTERS

ICON Shelter Systems Inc.

Open, partially enclosed or fully enclosed bicycle structures help to protect and secure non-motorized bikes from sun, rain and vandalism.

Product Application
- RH11X40M2C-P4, Riverside Plaza, Chicago, IL (shown)
- Bicycle garage and waiting station, Valparaiso, IN
- SG15.5X37.8M-P4, Sunnyside Trailhead, Clovis, CA
- Integrated bicycle racks
- Windscreens, doors and benches available
- Steel frame E-coated/powder coated 8-12 mils thick

www.iconshelters.com
800.748.0985



Booth: 225 ASLA

SNAP 173

A UNIQUE PERMEABLE PAVING SYSTEM

GREEN | $$

Soil Retention Products, Inc.

Drivable Grass® is a permeable, flexible and plantable concrete paving system that can be used for a wide variety of applications.

Product Application
- Parking lots
- Driveways
- Golf courses
- RV parking
- Pathways
- Boat ramps
- Fire lanes
- Drainage swales

www.soilretention.com
800.346.7995 | info@soilretention.com



Booth: 738 AIA Expo

SNAP 174

CRASH-TESTED BOLLARDS – SHALLOW FOUNDATION

Tymetal Corp.

K4 Bollard: patent-pending, energy-absorbing spring steel. Shallow mount (8 in.), removable or fixed, stainless steel covers. Or use as planter, bike rack, bench (street furniture).

Product Application
- Used extensively in 2012 London Olympics
- Protects pedestrians from vehicle accidents
- Protects property from intentional attack

Performance Data
- Crash-tested K4 or K12
- Meets new ASTM F3016 for storefront safety
- Spring steel absorbs energy, allows for shallow footing

www.tymetal.com
800.328.4283 | Dick Krieger



SNAP 175

TERRAZZO – A PERFORMING ART

National Terrazzo & Mosaic Association

Rustic terrazzo offers unique alternatives to interior and exterior paving with the flexibility to accommodate designs from classic traditional to artistically unique floor and wall surfaces.

Product Application
- Exterior
- Commercial
- Artistic

Performance Data
- Slip resistant
- Durable

www.ntma.com
800.323.9736 | info@ntma.com



Booth: 3070 AIA Expo

SNAP 176

USE THE CARD AND WIN!





Request free product information in a SNAP with our convenient mail-in postcard and be entered to WIN one of five $100 VISA gift cards. Easy, Fast, Smart.

Drawings are random. Winners will be drawn 90 days after publication. NO PURCHASE NECESSARY. A PURCHASE WILL NOT IMPROVE YOUR CHANCES OF WINNING. TO ENTER: Mail or fax the reader service card found in SNAP or visit sweets.com for the SNAP reader service center and select products. To submit an entry by mail, mail an index card with your name, address, email address and daytime phone number to: "SNAP Reader Service Contest," Reader Service Card Processing Center, P.O. Box 3146, Buffalo, NY 14205-9993. There will be 5 winners for each issue drawn from entries received. Retail value of the VISA gift card is $100. View complete rules at construction.com/sweets/snap/contest/.

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G = Product marketed as green | **NEW** = Released in the past 12 months

OGI Decorative Grille Series:
Provides a visual screen while enhancing decorative appeal



DG115



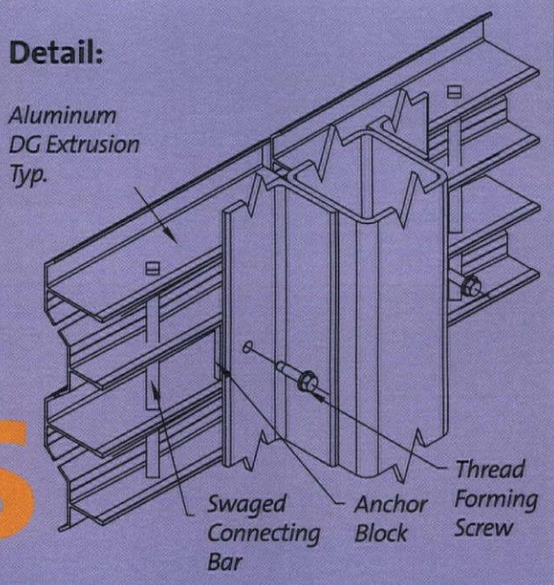
DG215

Decorative Grille Series

Product Features:

- Manufactured using 6000 series alloy aluminum blade extrusions
- Designed to emulate popular metal façades while maintaining a lightweight, economical and weather resistant construction
- Available in multiple configurations to allow for different percentages of visual block and open area
- Various frames can be provided for installation
- Custom spacing & finishes available
- Capable of spans up to 11'-0"
- Extremely versatile - can be used for fences, gates, privacy screens, sunshades and drainable canopy infills
- Meets LEED requirements for MR4.2 (20% recycled content)
- Made in the USA

Detail:



MADE IN THE USA

OGi Architectural Metal Solutions
an Ohio Gratings Company

5299 Southway Street SW ☐ Canton, OH 44706 ☐ www.ohiogratings.com
1-800-321-9800 ☐ Fax 330-477-7872

Masaru Series

LANDSCAPE CONTAINERS

Good design, fine craftsmanship, enduring material



4 sizes available
High-strength, 6000+ PSI concrete
Endless color options

KORNEGAY DESIGN

KornegayDesign.com | toll free 877.252.6323



Now Serving, Anything You Want.

Many people call themselves custom booth manufacturers and occasionally they do produce a special booth or two. However when it comes to constant day-in day-out, year-after-year production of custom designed booths, no one can touch the experience, depth and quality of B.I.G. Call or email today for your copy of the B.I.G. Catalog of 312 booths.



SNAP 307 www.bigbooth.com • info@bigbooth.com • 626-448-1449 • FAX 626-448-3598 • Toll-Free 1-800-669-1449





42 Foot Monorail Cantilever Gate

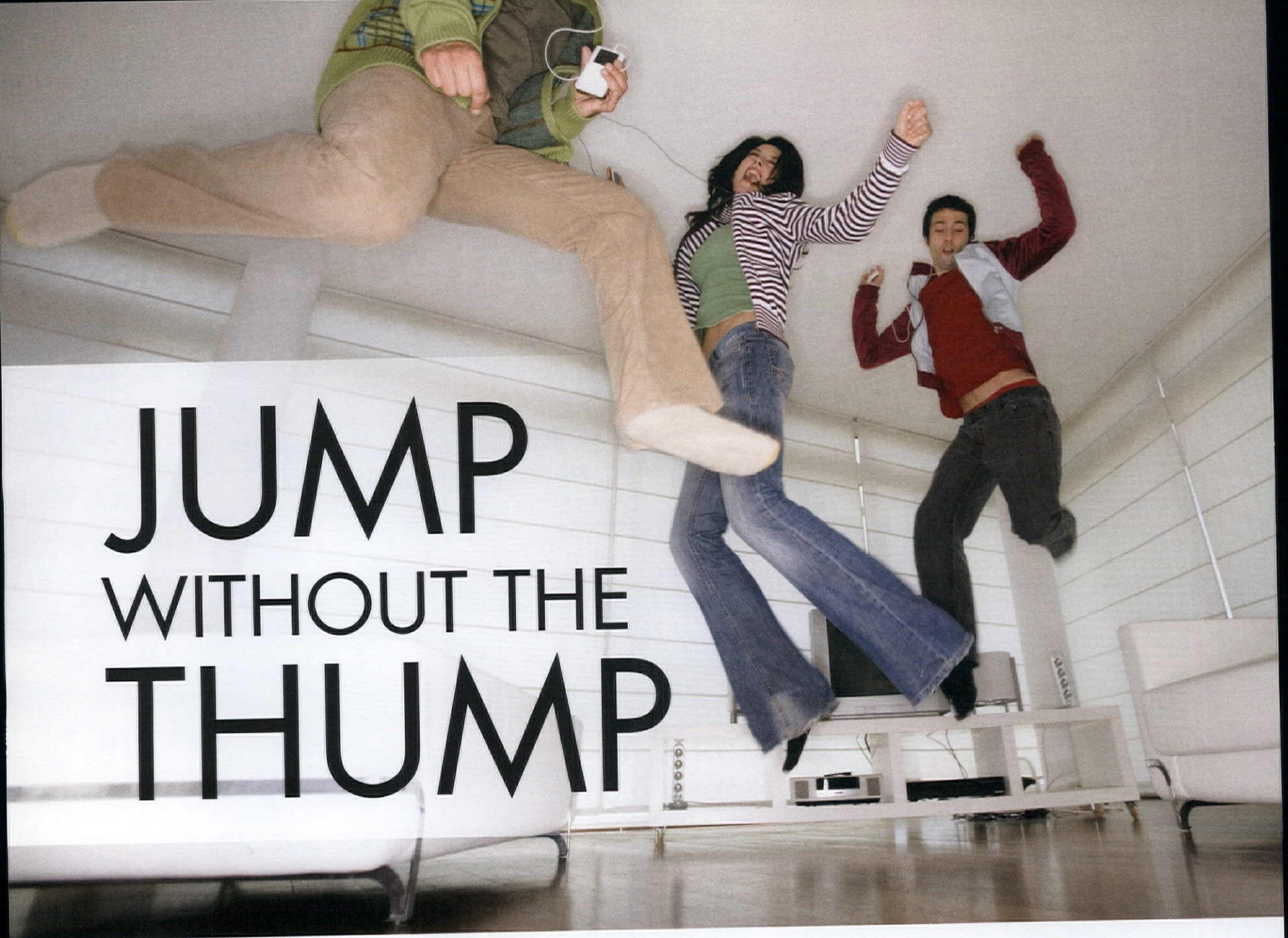
Ametco Manufacturing Corporation will custom fabricate your gate requirements be it swing gates, v-wheel roller gates or cantilever gates.

AMETCO
MANUFACTURING CORPORATION

Visit our web site @ www.ametco.com

SNAP 300

4326 Hamann Parkway
P.O. Box 1210
Willoughby, OH 44096
TF: 800.321.7042
F: 440.951.2542
E: ametco@ametco.com



TURN DOWN THE VOLUME WITH ACOUSTI-MAT®

Maxxon offers a complete line of underlayments and sound mats:

- Ideal for hospitality, multifamily, single family, commercial and renovation projects
- Solutions for noise reduction in floor/ceiling assemblies
- A full line of gypsum underlayments for floor leveling & fire control
- GREENGUARD Gold Certified

Now upgrade your sound control without adding floor height with our new Acousti-Mat HP Series of sound control mats. *To learn more visit www.maxxon.com/hp.*

To learn more:
800-356-7887
info@maxxon.com
www.MaxxonCorporation.com

MAXXON
GYP-CRETE® WAS ONLY THE BEGINNING

SNAP 259

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PRODUCT SPOTLIGHTS

Doors, Windows	Pgs.	81-84
Interior Finishes, Furnishings	Pgs.	89-90
Roofing, Siding, Thermal & Moisture Protection	Pgs.	95-96
Materials	Pgs.	101-102
Electrical, Lighting	Pgs.	105
Equipment	Pgs.	109-110
Mechanical Systems, HVAC, Plumbing	Pgs.	115
Landscaping, Sitework	Pgs.	117
SPECIALTY PRODUCTS	**PGS.**	**123-132**

SPECIALTY PRODUCTS

VERSATILE & BUILT TO LAST

WR

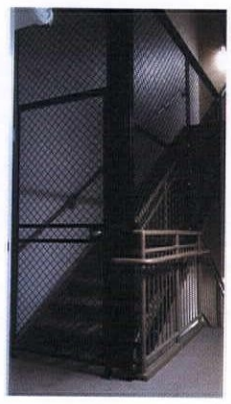
Woven Wire Products Association

Wire mesh partitions and infill panels offer security and safety while allowing free airflow and visibility.

Product Application

- Woven wire partitions
- Railing infill panels
- Window guards
- Co-location cages
- Tenant storage cages
- Stairwell partitions

www.wovenwire.org



SNAP 177

SPECIALTY PRODUCTS

SUN & WEATHER PROTECTION

WR | GREEN

Victory Awning

Unique canvas as well as metal structures providing sun and weather protection for traditional or cutting-edge architecture.

Product Application

- School districts
- Theme/water parks
- Commercial/building management

Performance Data

- Standard and custom design applications
- Cost-effective sun and weather protection

www.victoryawning.net
817.759.1600 | Scott Luttrell



SNAP 178

SPECIALTY PRODUCTS

FOLDING STAIRWAY

$$ | NEW

Precision Ladders, LLC

Automatic Super Simplex Folding Stairway opens and unfolds at the press of a button. New patent-pending stair can be operated from above or below for ceiling heights up to 16 ft.

Product Application

- University of Memphis Clock Tower, Memphis, TN
- I-78 Toll Plaza, Blackwood, NJ
- Fort Saskatchewan Hospital, Edmonton, Alberta

Performance Data

- 500-lb load rating with actual shear of rivets tested to 1,175 lb; steel frame, extruded aluminum treads

www.precisionladders.com
800.225.7814 | Steve Fugate



SNAP 179

SPECIALTY PRODUCTS

CABLE FITTINGS

$$ | GREEN

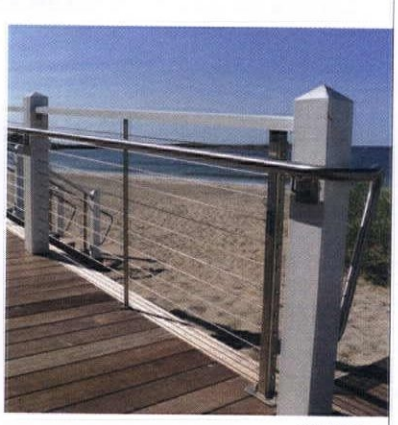
Johnson Architectural Hardware

Johnson is ready to serve you on your next cabling project. Cable fittings and accessories are their only business for over 50 years. Most likely, they have a fabricator near you.

Product Application

- New I-35 bridge project in Minneapolis, MN
- Yale Building Project 2007-2014, Yale Univ. School of Architecture
- Stair cable railings on Hyannis to Nantucket ferry

www.csjohnson.com
800.874.7455 | Curt Johnson



SNAP 180

SPECIALTY PRODUCTS

ENGINEERED STRUCTURAL GLASS FLOORS

Glass Block of America

Structural Plank Glass System with metal frames for interior or exterior, residential, institutional or commercial applications. Bring in natural light and the "wow" factor.

Product Application

- Floors; deck lights; stairs; skybridges; canopies; skylights; solid glass paver & precast concrete panel systems and glass bullet & cast iron panel systems

Performance Data

- Complete engineered systems
- Custom engineered to project's load requirement

www.glassblockofamerica.com
877.280.7700 | Steve Boesch



SNAP 181

SPECIALTY PRODUCTS

PREMIUM BIRD SPIKES

$$$ | GREEN | NEW

Nixalite of America Inc.

Premium Nixalite Spikes control all birds, on all types of surfaces, in all levels of infestation. Nixalite earns LEED credits.

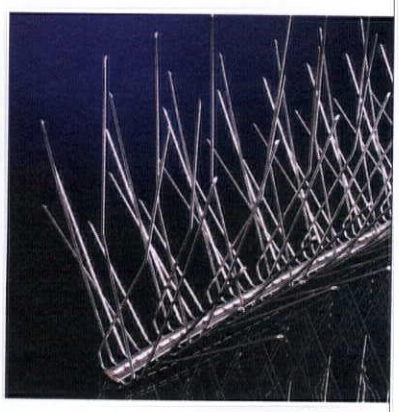
Product Application

- Repels all pest bird species
- Acts as climbing barrier for animals
- Protects people and property from droppings

Performance Data

- High-grade stainless steel construction
- Standard mounting hardware included

www.nixalite.com
800.624.1189 | George Winthurst



SNAP 182

SPECIALTY PRODUCTS

ALUMINUM GRILLES

$$ | GREEN

Architectural Grilles & Sunshades, Inc.

AGS, Inc.'s aluminum grilles provide superior screening with a decorative look for projects that require visual or security barriers.

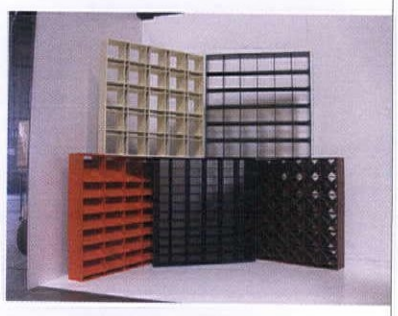
Product Application

- 1st Street remodel, St. Charles, IL
- Pleasant Street parking garage, Madden, MA
- 100 Grand Ave., Oakland, CA

Performance Data

- Engineered for live load capabilities
- Counts towards LEED point requirements

www.agsshade.com
708.479.9458 | Zach Grunert



SNAP 183

All products in this section are accessible on sweets.com.

$$$**= Premium cost | **$$**= Mid-range cost | **$= Value-oriented cost | **WR** = Wide range of price points | **NC**= No charge
G = Product marketed as green | **NEW** = Released in the past 12 months

SPECIALTY PRODUCTS

THEATRE SYSTEMS INTEGRATOR

SECOA

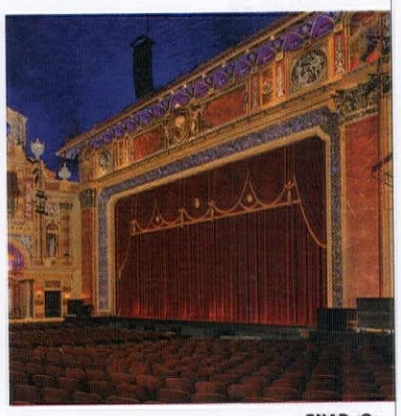
SECOA is a national integrator of theatre equipment and systems. Product lines include: counterweight and automated rigging, orchestra shells, pit fillers, lifts, drapery, and lighting systems.

Product Application

- K-12 and higher education, theatres, performing arts centers, workshop facilities, and arenas

Performance Data

- Best practices keep budgets and schedules intact
- In-house manufacturing maintains flexibility
- Project teams with technical theatre experience



www.secoa.com
800.328.5519 | Dan Culhane

SNAP 184

SPECIALTY PRODUCTS

SLIDE GATE OPERATORS

DoorKing, Inc.

Maximum-security slide gate operators for a high degree of perimeter protection and traffic control.

Product Application

- O'Hare International Airport, Chicago, IL
- Cobb Performing Arts Centre, Atlanta, GA
- Abu Dhabi Airport, United Arab Emirates

Performance Data

- Vehicular slide gates up to 100 ft in length and up to 5,000 lb in weight



www.doorking.com
866.400.3600 | George Hendrix

SNAP 185

SPECIALTY PRODUCTS

ORNAMENTAL ALUMINUM FENCE & GATES

Elite Fence Products, Inc.

Ornamental aluminum fence, railing and gates with an AAMA 2604 powder-coated finish. Made in the USA.

Product Application

- Metro Airport, Detroit, MI
- Old Dominion University, Norfolk, VA
- Toyota, Detroit, MI

Performance Data

- AAMA 2604 powder-coated finish
- Maintenance-free finish, limited lifetime warranty



www.elitefence.com
800.783.1331 | Karl Stinson

SNAP 186

SPECIALTY PRODUCTS

ORNAMENTAL STAIRS

WR

American Stair Corp.

Architectural Class monumental stairs are offered to complement their line of industrial, commercial, and service class steel stairs and railing.

Product Application

- New River Parishes Community College, Gonzales, LA
- Philadelphia Convention Center
- Chapman College, Orange, CA

Performance Data

- Built to suit per architect's design
- Heavy channel, box, or tube stringers
- Can incorporate glass, stainless, or terrazzo



www.americanstair.com
800.872.7824 | info@americanstair.net

SNAP 187

SPECIALTY PRODUCTS

EPS TRENCH DRAIN FORMING SYSTEMS

WR | GREEN

MultiDrain Systems, Inc.

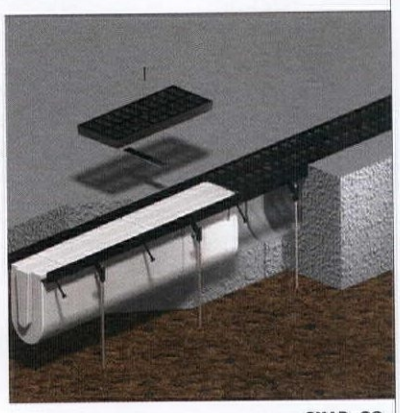
EconoDrain is a pre-engineered trench drain forming system made from expanded polystyrene (EPS) foam forming sections and steel frames for supporting the various types of grates.

Product Application

- Austin-Bergstrom International Airport, Austin, TX
- Unmanned Aerial Vehicle Facility, Ft. Campbell Military Base

Performance Data

- Designed for maximum versatility, customization and easy installation; EconoDrain standard grate is H20 and/or HS25 capable in both slotted and ADA configurations



www.multidrainsystems.com
800.433.1119 | Steve Born

SNAP 188

SPECIALTY PRODUCTS

INDOOR AIR QUALITY GYPSUM BOARD LINE EXPANDED

WR | GREEN | NEW

CertainTeed Gypsum

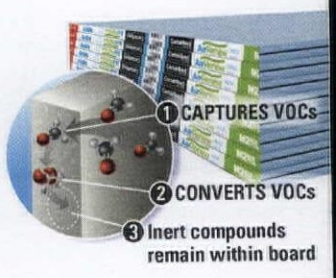
AirRenew® Extreme Abuse and Extreme Impact remove volatile organic compounds (VOCs) circulating indoors, contributing to a healthy indoor air quality.

Product Application

- Ames Montessori School, Marrero, LA
- Bryant Elementary, Bryant, AR
- UNCG Quad renovations, Greensboro, NC

Performance Data

- Superior resistance to hard impacts, penetrations; high performance against surface abrasion, indentation; exceptional durability, increased sustainability



www.certainteed.com
800.233.8990 | Amy Lee

SNAP 189

SPECIALTY PRODUCTS

INTRODUCING "EXPRESS YOURSELF" COLORS

WR | GREEN | NEW

Feeney, Inc. (DesignRail®)

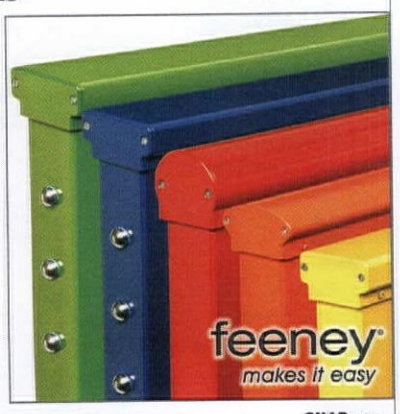
Explore five bold new colors and endless possibilities with DesignRail® aluminum railing systems. Customizable, ultra-durable and easy to install and maintain.

Product Application

- Residential, commercial, institutional projects
- Interior and exterior settings
- LEED projects, recycled content eligibility

Performance Data

- Finishes meet rigorous AAMA-2604 coating specs
- Pre-engineered systems with commercial-grade 6000-series aluminum extrusions



www.feeney6.com
800.888.2418 | Trang Nguyen-Soriano

SNAP 190

SPECIALTY PRODUCTS

ACCESS FLOORING SYSTEM

Haworth

Haworth Raised Access Floors are the foundation for spaces that adapt to workplace needs. TecCrete Raised Access Floors are a durable, dependable and architectural solution for a variety of spaces.

Product Application

- Offices – new construction & renovation
- Education & libraries
- Data centers
- Casinos

Performance Data

- Longest warranty in the industry
- Concentrated loads from 1,250 - 2,500 lb



www.haworth.com/home/floors
616.393.3000 | laura.stadler@haworth.com

SNAP 191



Carnegie Xorel®

World's first biobased high performance interior textile for walls, panels and upholstery.

Proven on thousands of installations around the globe for 35 years.

Unmatched luxury and performance.

UNITED STATES / AUSTRALIA / CANADA / EUROPE / INDIA/ JAPAN
NEW ZEALAND/ QATAR / SOUTH EAST ASIA / UNITED ARAB EMIRATES /KSA
CARNEGIEXOREL.COM

Xorel registered trademark and license to distribute is granted by permission of Carnegie Fabrics Inc.

SNAP 299

SAFETY FLOORING
FOR YOUR ENTIRE BUILDING

EXTERIOR STAIRS



ENTRANCES



Slips and falls are concerns at all facilities. Make all areas of your building safe with Musson Rubber entrance mats, sheet rubber and stair treads for interior and exterior applications. As a leader in safety flooring for seventy years, Musson Rubber has solutions for all trouble areas of commercial buildings. Contact our customer service department (800-321-2381 or info@mussonrubber.com) or visit our website (www.mussonrubber.com) for more information.



INTERIOR STAIRS



HALLS & CORRIDORS

MUSSON RUBBER CO.

P.O. Box 7038 • Akron, Ohio 44306
800-321-2381 • Fax 330-773-3254
info@mussonrubber.com
www.mussonrubber.com

SNAP 285

BLEACHER DESIGN

E&D Specialty Stands, Inc.

Better by design. Innovative, detail-focused and thorough with superior customer service. For high-quality design and craftsmanship, choose E&D.

Product Application

- Rentschler Field, Univ. of Connecticut, East Hartford, CT
- Martinsville Speedway, Martinsville, VA
- Hamilton High School, Hamilton, MI

Performance Data

- Innovative solutions for your facility
- High-quality design





www.edstands.com
716.337.0161 | Doug Bigelow

SNAP 192

GUARD SHELTER

B.I.G. Enterprises, Inc.

The Data Sentinel Guard Shelter: Sleek, no-nonsense exterior design is deliberately imposing, answering need for site anonymity. Includes ADA accessible restrooms and energy-compliant construction.

Product Application

- No-breach zones
- High security – sensitive facilities

Performance Data

- Bullet and blast resistant
- CBRN protection available



www.bigbooth.com
626.448.1449 | Dave King dking@bigbooth.com

SNAP 193

FAST-TRACK FLOORING

$$$ | GREEN | NEW

Dur-A-Flex, Inc.

ACCELERA™ HC is a 100% solids, seamless flooring system offering a fast, low-odor installation ideal for can't-close, 24/7 operations.

Product Application

- Healthcare
- Retail
- Grocery

Performance Data

- Low odor, fast curing
- Excellent chemical and wear resistance



www.dur-a-flex.com
860.528.9838 | Ron Phillips

SNAP 194

CUSTOM-MADE ROLLING LADDERS

Putnam Rolling Ladder Co., Inc.

Since 1905 Putnam Rolling Ladder Co. has been manufacturing custom-made rolling ladders.

Product Application

- Library rolling ladder
- Loft ladder
- Decorative office ladders and stools

Performance Data

- Numerous hardwood species, stains and hardware metal finishes



www.putnamrollingladder.com
212.226.5147 | Sales

SNAP 195

HARDWOOD STAIRS

WR

Unique Spiral Stairs

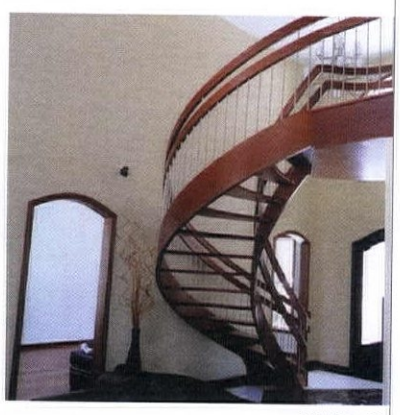
All-hardwood construction. Highly customizable stairs in 17 standard designs. Custom diameter or straight run designs are available.

Product Application

- Residential applications
- Commercial applications
- Interior or exterior designs

Performance Data

- Engineered for weight capacities
- 10-year warranty



www.uniquespiralstairs.com
800.924.2985 | Darren Dumont

SNAP 196

WIRE MESH PARTITIONS

WR | NEW | GREEN

ACORN Wire and Iron Works

Stationary and portable wire mesh partitions and folding gates for safety, loss prevention and traffic control. Residential, commercial/industrial, education, retail, government and transportation.

Product Application

- Bonded warehouse
- School security gates
- Tenant storage lockers

Performance Data

- Diamond woven wire mesh, standard 10-gauge steel, heavy-duty 6-gauge steel
- Powder coating available



www.acornwire.com
312.243.6414 | Carina Diaz cdiaz@acornwire.com

SNAP 197

BIRD-PROOF YOUR BUILDING

$ | GREEN | NEW

Bird Barrier America, Inc.

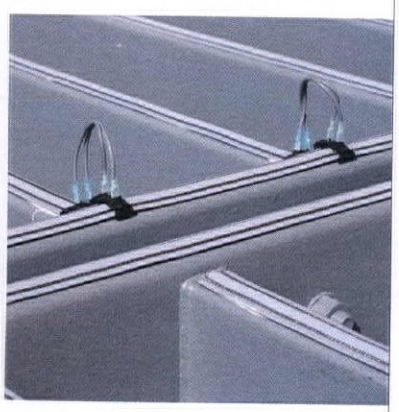
Bird-Shock® Flex-Track® is a low-profile ledge deterrent system that is effective against all species of pest birds, conditioning them to stay away.

Product Application

- Use on any surface where low visibility is key
- Parapets, roof peaks, beams, ledges, etc.

Performance Data

- New alarm to monitor the system 24/7
- Only 1/4 in. high, colors to match building
- Anti-arcing base
- Flexible base conforms to building surface
- Solar chargers available



www.birdbarrier.com
800.503.5444 | Liz Richter

SNAP 198

CLEAR ROLLING SECURITY SHUTTERS

QMI Security Solutions

The new LX6 clear polycarbonate slat shutter is clear protection that still rolls into a small box housing—motorized or manual.

Product Application

- Outdoor restaurants for wind & security
- Storefront protection for high-end retailers
- Room divider partitions for sound & security

Performance Data

- Manual spring assist operation up to 100 sq ft
- Motorized operation up to 280 sq ft



www.qmiusa.com
800.446.2500 | Tom Miller

SNAP 199

All products in this section are accessible on sweets.com.

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G = Product marketed as green | **NEW** = Released in the past 12 months

SPECIALTY PRODUCTS

EYEBROW LOADING DOCK CANOPIES

Childers Carports & Structures, Inc.

Eyebrow canopies' unique design totally eliminates the use of sag rod or valance hangers. Provides a minimum 30-psf live load and a 25-psf horizontal wind load. Canopies are pre-eng and pre-fab.

Performance Data
- Deck and trim items available prefinished
- Available in widths (depths) 4 to 10 ft
- Manufactured from hot-dipped galvanized & galvalume steel for a low-maintenance system





www.childersonline.com
713.460.2181

SNAP 200

SPECIALTY PRODUCTS

ENHANCED SOFT-CLOSE SLIDE

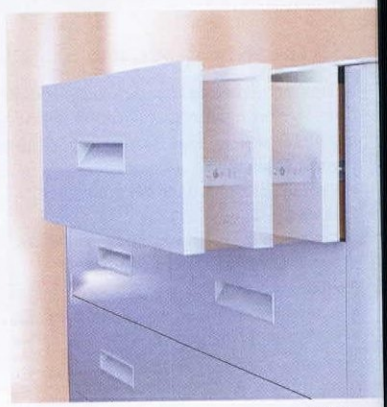
$$ | NEW

Accuride International

The enhanced 3832EC provides flawless movement, reliable performance and features to speed installation. The Easy-Close action helps prevent slamming.

Product Application
- School and laboratory casework
- Medical or commercial casework
- Residential cabinetry or casework

Performance Data
- 100-lb load capacity
- Lengths 14 in. to 28 in.; zinc or black finish



www.accuride.com
562.903.0200 | Claudia Tuttle

SNAP 201

SPECIALTY PRODUCTS

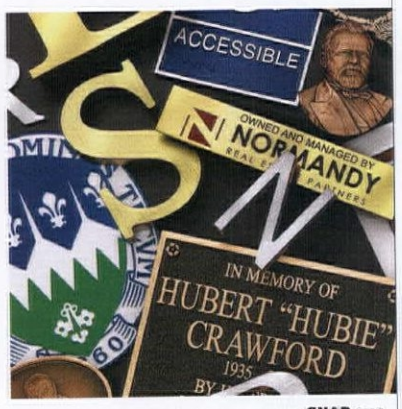
ARCHITECTURAL SIGNAGE

GREEN

A.R.K. Ramos Mfg. Co., Inc.

A.R.K. Ramos manufactures cast aluminum, brass, bronze letters and plaques. They produce cut graphics and reverse channel letters in a variety of metals: aluminum, brass, bronze and stainless steel.

Performance Data
- Custom letter styles are available; custom fonts from the library of computer fonts and artwork supplied by customer
- Utilizes leading technology



www.arkramos.com
800.725.7266

SNAP 202

SPECIALTY PRODUCTS

TURN ROUGH WALLS INTO A WORK OF ART

Mactac
RoughRAP™

Digitally print any graphic image for a paint-like mural or decal! Apply this mess-free solution to almost any textured surface indoors or outdoors.

Product Application
- Brick walls
- Cinder block walls
- Almost any rough surface

Performance Data
- WW100 is a 2.1-mil gloss white vinyl
- 18 months outdoors with RAYZor Laminate
- Up to 10 years indoors



www.mactac.com
866.622.8223 | mactac.americas@mactac.com

SNAP 203

SPECIALTY PRODUCTS

DELUXE STAINLESS STEEL SERIES

WR | NEW

Ketcham Medicine Cabinets
div. of Fred Silver & Co.

Stainless steel medicine cabinets.

Product Application
- Nursing homes, hospitals
- Assisted living, multi-residential
- Dormitories

Performance Data
- Heavy-duty satin stainless steel construction
- Available recessed and surface mounted



mirrorsandcabinets.com | ketchamcabinets.com
631.615.6151 | sales@ketchamcabinets.com

SNAP 204

SPECIALTY PRODUCTS

COMMERCIAL-GRADE VERTICAL BIKE RACK

$

Bike Solutions by Vermont Manufacturing Services, Inc.

The Mini Mum is an economical, space-efficient and durable bicycle hanger. It provides stable vertical bike storage for institutional, residential and commercial installations.

Product Application
- Bike rooms; storage rooms
- Commercial buildings

Performance Data
- Heavy duty, space efficient
- Three-year warranty



www.vtbikesolutions.com
802.775.7638 | Aaron Ashton

SNAP 205

SPECIALTY PRODUCTS

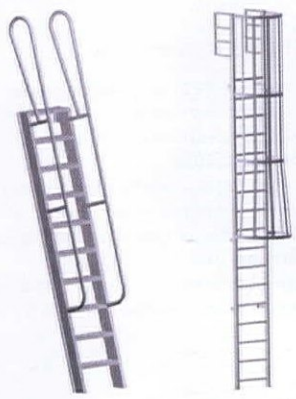
ACCESS SOLUTIONS

UPNOVR, Inc.

UPNOVR fabricates fixed-access ladders designed to meet a variety of applications including interior/exterior roof, mezzanine and crossover access.

Product Application
- 200 series for climbs under 20 ft
- 300 (safety cage) for climbs over 20 ft
- 500 series for ship's ladders

Performance Data
- Lightweight high-strength aluminum construction
- Accessories: security doors, safety up posts, platforms



www.upnovr.com
603.625.8639 | Shawn Gosselin

SNAP 206

SPECIALTY PRODUCTS

PREMIUM ALUMINUM CABINETS

$$ | GREEN

Moduline Cabinets

Moduline Cabinets are premium aluminum cabinets.

Product Application
- Residential
- Commercial
- Industrial

Performance Data
- Innovative high-quality aluminum shop tool storage cabinets, wall-mounted cabinets and countertop material
- Organize with style

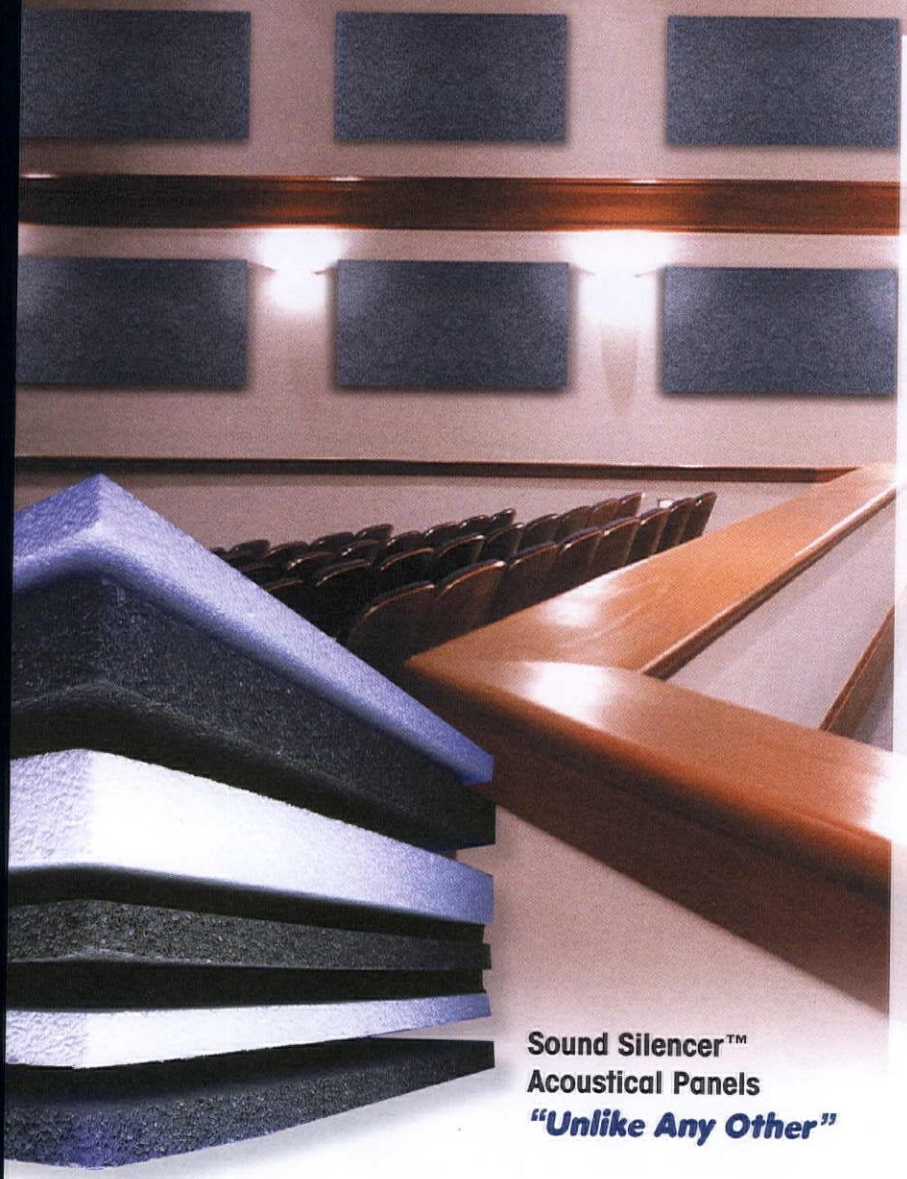


www.modulinecabinets.com
888.343.4463 | Tim Cass

SNAP 207

Sound Silencer™

Rigid, Porous ARPRO® Acoustical (P.E.P.P.) Panels for Walls & Ceilings!



Sound Silencer™ Acoustical Panels *"Unlike Any Other"*

Sound Silencer acoustical wall panels and ceiling tiles are an entirely unique kind of acoustical panel. Made from Rigid, Porous ARPRO® Acoustical Panels (P.E.P.P.), these panels are Class-A fire rated and have both STC and NRC values. They are tackable, lightweight, and bacteria and fungi resistant. Sound Silencer panels are great for gymnasiums, ice rinks, swimming pools, cleanrooms, laboratories, food preparation areas and anywhere else where noise control is important. Panels can be applied directly on wall and ceiling surfaces for attractive and effective sound control.

FEATURES:

- Class-A Fire Rated
- No Fiberglass
- Structurally Rigid
- Moisture Resistant
- Nonfibrous
- Indoor/Outdoor
- Both STC & NRC Ratings
- Impact Resistant
- Tackable Surface
- Bacteria & Fungi Resistant
- Lightweight







APPLICATIONS:

- Gymnasiums/Swimming Pools
- Auditoriums/Community Centers
- Offices/Meeting Rooms
- Schools/Houses of Worship
- Ice Rinks/Skating Rinks
- Arenas/Stadiums
- Cleanrooms/Laboratories
- Cafeterias/Restaurants
- Food Preparation Areas
- Manufacturing Plants
- Pro Audio/Home Theater







Acoustical Surfaces, Inc.
We Identify and
S.T.O.P.
Your Noise Problems
Sound Transmission Obscuring Products
Soundproofing, Acoustics, Noise & Vibration Control Specialists
™

We Identify & S.T.O.P. Your Noise Problems!

Acoustical Surfaces, Inc.

123 Columbia Court North ■ Chaska, MN 55318

952.448.5300 ■ 800.964.7131 ■ sales@acousticalsurfaces.com ■ www.acousticalsurfaces.com

SOUNDPROOFING, ACOUSTICS & VIBRATION CONTROL SPECIALISTS!

© 2015 Newell Rubbermaid Office Products

WRITE ON ANY SURFACE*

Sharpie PRO

*All lettering done with Sharpie Pro markers.

Sharpie Pro is tough enough for any job. Even this print ad.

50% more durability on abrasive surfaces.

Marks on wet & oily surfaces.

Quick drying.



See the entire Sharpie Pro series at **sharpie.com/pro**

PORTABLE FIRE EXTINGUISHER STAND

The Strike First Corporation of America

Made in the USA, the CENTURION fits all 10-lb and 20-lb fire extinguishers (sold separately). Fully assembled portable fire extinguisher stand.

Product Application

- Lightweight molded polyethylene for maximum weatherability

Performance Data

- Equipped w/ required safety decals
- Top & bottom 16ga steel Galva Coat brackets are powder coated
- Environmentally safe sand-filled base
- Faultless casters for easy mobility

strikefirstusa.com
800.255.5515 | Angie Williams



SNAP 208

COUNTER SUPPORT BRACKET

GREEN | NEW

Rangine Corporation/Rakks

Rakks Eclipse Brackets can support counters or shelves up to 18 in. deep. This attractive low-profile design is easy to install with no visible hardware.

Product Application

- Commercial
- Residential

Performance Data

- Eclipse Brackets can support loads up to 300 lb per pair sold in clear and black anodized finishes
- Machined aluminum ends provide a smooth and near seamless termination

www.rakks.com
800.826.6006 | David Greenberg



SNAP 209

STEAM ROOM BOILER

Helo Commercial AI Boilers Manufactured By Amerec

The AI boiler is engineered to supply one or two steam rooms with steam for years. Designed for ease of use and maintenance, Helo Commercial sales will help specify the boiler to meet your needs.

Product Application

- Health clubs
- Hotels
- University & professional sports teams
- Community centers
- Hospital wellness centers
- Day spas

www.helocommercial.com
800.225.7519 | sales@helocommercial.com



SNAP 210

VENT GRILLES

$$

OGi Architectural Metal Solutions – an Ohio Gratings Company

The Vent Grille (VG Series) is a superior architectural close mesh grating product for interior or exterior applications and can meet ADA requirements.

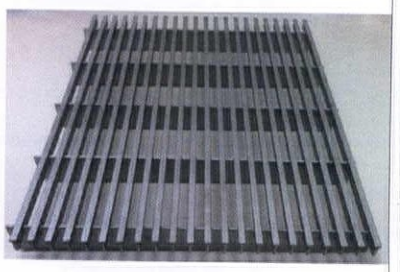
Product Application

- HVAC ventilation grilles & entrance mats
- Tree grates & decorative grilles
- Trenches & fountains

Performance Data

- Manufactured from stainless steel (304 or 316 alloy)
- Clear openings can be as narrow as 1/4 in.
- Finish is a #4 Mechanical

www.ohiogratings.com
800.321.9800 | Jason Richter



SNAP 211

GREEN HIGH-SPEED HAND DRYERS

GREEN | NEW

Saniflow Hand Dryer Corporation

Newest line of Green High-Speed Hand Dryers offers many options from fast drying time to low energy consumption. ADA-compliant SPEEDFLOW. Eco-friendly MACHFLOW. Energy-efficient DUALFLOW PLUS.

Product Application

- Wal-Mart stores and superstores
- Dallas/Ft. Worth School District
- VIP United Airlines airport lounges

Performance Data

- Up to 90% energy savings vs. traditional dryers
- LEED point contributing and GreenSpec listed

www.saniflowcorp.com
305.424.2433 | Emma Diaz



Booth: 1941 AIA Expo

SNAP 212

CLOSER & HINGE EXTERNAL MOUNT

D&D Technologies
World's most trusted gate hardware

SureClose is the line of hydraulic gate closers that combines both the closer and gate hinge in one small, but powerful unit created to replace conventional hinges, closers and header arrangements.

Performance Data

- Multiple adjustment options and closing speeds
- Self-closes gates up to 260 lb
- ADA compliant
- Highly tamper resistant

www.ddtechglobal.com
714.677.1300 | info@ddtechusa.com



SNAP 213

STADIUM SEATING

WR | NEW

Sturdisteel

Cardinal 3000 stadium chairs are an economical choice for all sporting venues requiring reserved or individual seating sections.

Product Application

- Football, soccer or lacrosse stadiums
- Baseball or softball stadiums
- Gymnasiums, natatoriums or arenas

Performance Data

- Self-rising, gravity-tip and maintenance-free
- 13 standard colors – custom colors available
- 5 sizes and 3 frame finishes

www.sturdisteel.com
800.433.3116 | info@sturdisteel.com



SNAP 214

ICC-ES CERTIFIED FOUNDATION FLOOD VENTS

NEW | WR | GREEN

Smart Vent® Products, Inc.
Flood Risk Evaluator (FRE)™

Request an FRE Project Form to send in your project details and receive compliance checks on your elevations, floor levels, enclosure heights, flood openings, flood zone determination and more.

Product Application

- HSW Floodproofing courses/CAD files avail. in Arch. Record and sweets.com

Performance Data

- Dual-function, insulated models
- Models for residential and commercial applications
- Made in the USA from Marine Grade 316 stainless steel

www.smartvent.com
877.441.8368 | info@smartvent.com



Booth: 3036 AIA Expo

SNAP 215

All products in this section are accessible on sweets.com.

$$$**= Premium cost | **$$**= Mid-range cost | **$= Value-oriented cost | **WR** = Wide range of price points | **NC**= No charge
G = Product marketed as green | **NEW** = Released in the past 12 months

SPECIALTY PRODUCTS

DAYLIGHTING SYSTEM

GREEN | WR

Kalwall®: High-Performance Translucent Building Systems

VERTIKAL™ lightweight composite FRP: a beautiful alternative to heavy channel glass. U-values from .08U to .53U. Lowest SHGC values in market. Integrated TB window options. Avail. 2.75" & 4.00" thick.

Product Application

- Dollar General Distribution Center, Bessemer, AL
- Hunter's Point Community Middle School, NYC, NY
- Tintern Middle Schools, Ringwood, Australia

Performance Data

- Glare-free, museum-quality daylighting™ with blast-resistant & hurricane-resistant options



Kalwall.com
800.258.9777 | info@kalwall.com

Booth: 1623 AIA Expo **SNAP 216**

SPECIALTY PRODUCTS

STAINLESS STEEL CABLE RAILING

WR | NEW

Atlantis Rail Systems

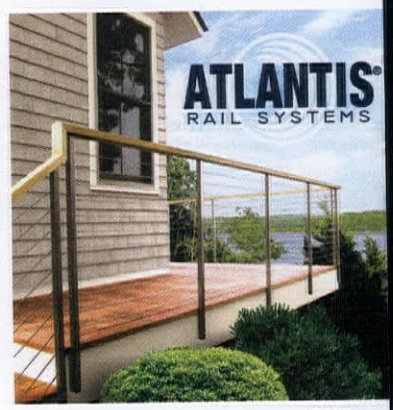
Stainless steel cable railing systems for unobstructed indoor or outdoor designs and pre-engineered for quick and easy installations.

Product Application

- Federal Jacks Restaurant & Brew Pub, Kennebunk, ME
- Gumbo Limbo Nature Center, Boca Raton, FL
- The Bluff Top Trail, Dana Point, CA

Performance Data

- Low maintenance, grade 316 stainless steel
- Variety of modular components for every design
- Commercial or residential; indoors or outdoors



www.atlantisrail.com
800.541.6829 | info@atlantisrail.com

Booth: 523 PCBC **SNAP 217**

SPECIALTY PRODUCTS

EXTRUDED ALUMINUM VENTS

$ | GREEN

Sunvent Industries div. of Sylro Sales Corp.

FL vents allow simple installation in existing walls where a fine finish is a requisite.
EX vents are the answer where a superior heavy-duty vent is required.

Product Application

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- Bridgeside Place, Fort Lauderdale, FL
- University View, College Park, MD

Performance Data

- Heavy-duty extruded aluminum
- Custom sizes readily available with quick delivery



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SNAP 218

SPECIALTY PRODUCTS

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Noble Company

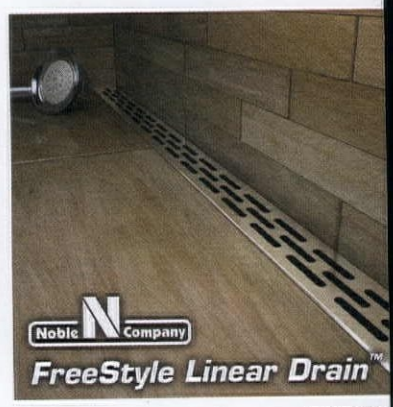
FreeStyle Linear Drain's clamping collar ensures a watertight installation. Single-piece construction, low profile and a flat bottom simplify installation.

Product Application

- Showers of all types including barrier-free and ADA
- Use w/ large-format tile for contemporary designs
- New construction, renovation

Performance Data

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- High capacity, 36 GPM drainage
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SPECIALTY PRODUCTS

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Performance Data

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SPECIALTY PRODUCTS

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Keel Manufacturing

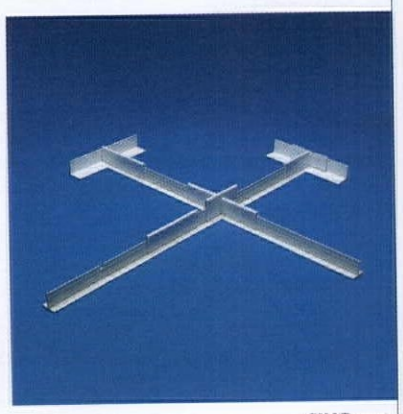
KEELGRID®: Corrosion-resistant non-magnetic fiberglass and plastic grid capable of seismic zones A to C.

Product Application

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- Laboratories
- Clean rooms

Performance Data

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CLEAN LINES! ... The Flush Finish Door Jamb System

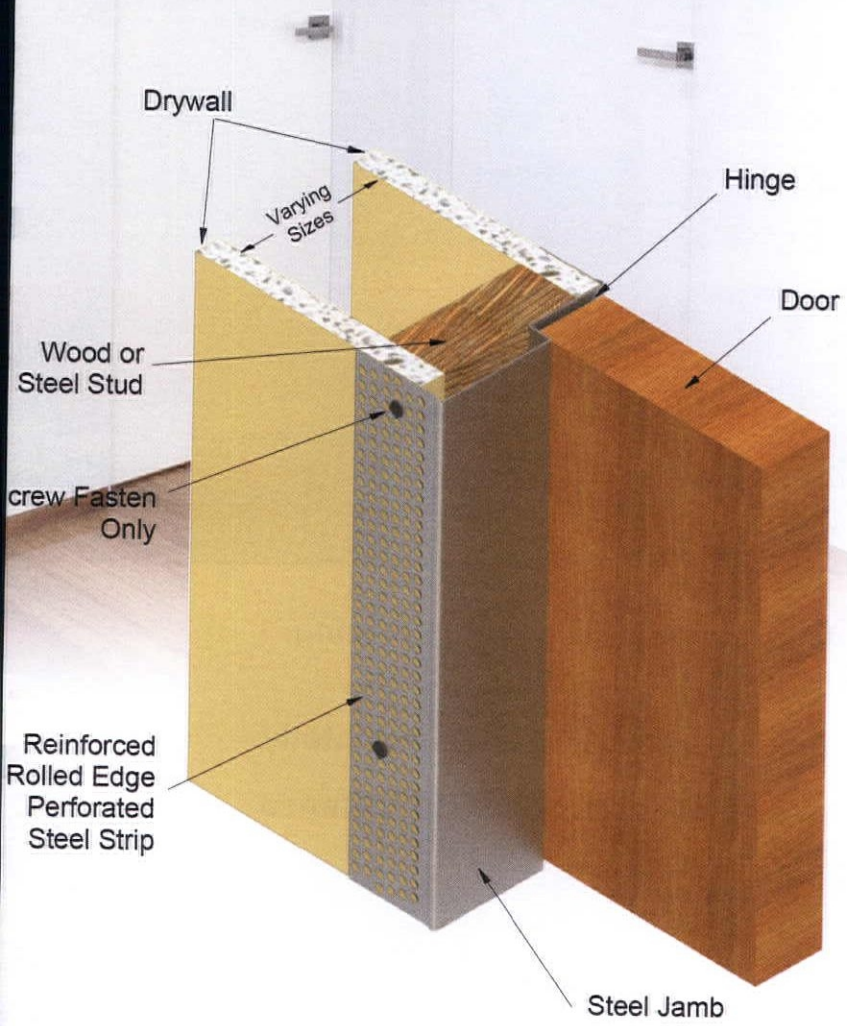
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The system is complemented by a range of hardware to suit different applications.

The completed jamb is flush finished and can be painted in with the whole wall area to fully conceal any fixing, achieving simple clean lines around the door face. The incorporation of reinforced edges overcomes the continual damage door jambs are subjected to by normal everyday use.

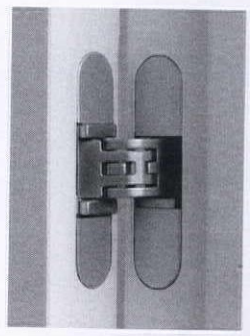


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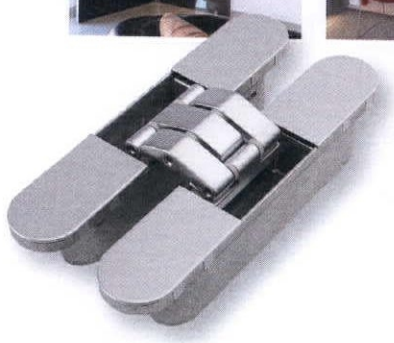












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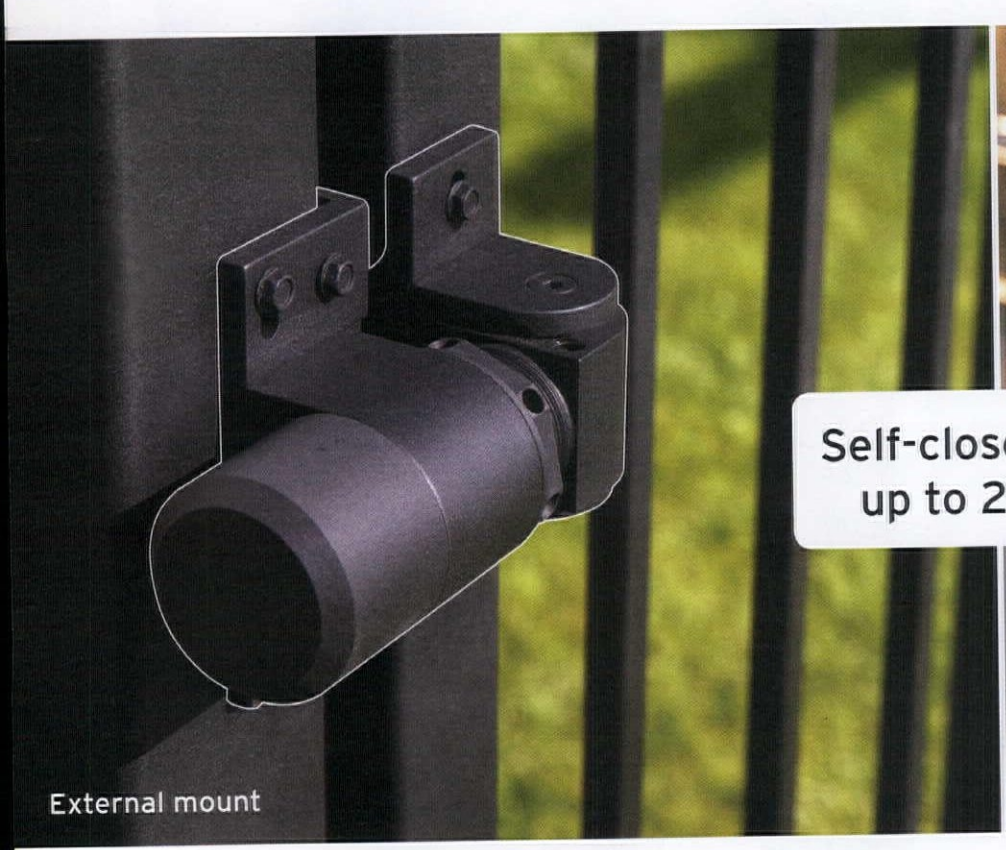
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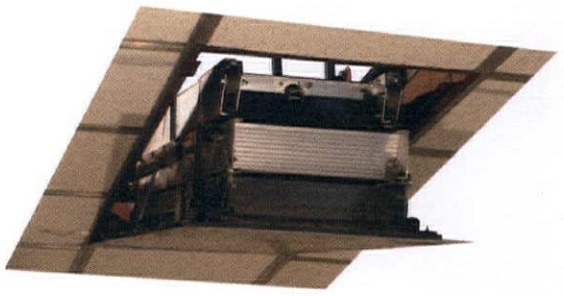
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Features unique to the Automatic Super Simplex:



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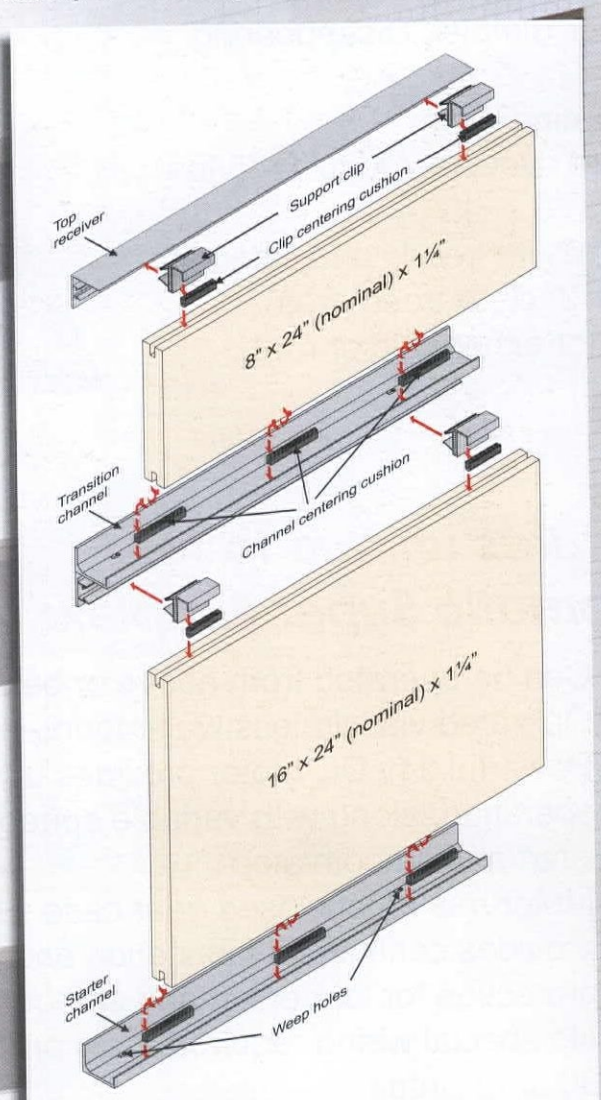
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13.1 ft	7 in.	12 in.
17.3 ft	8 in.	14 in.

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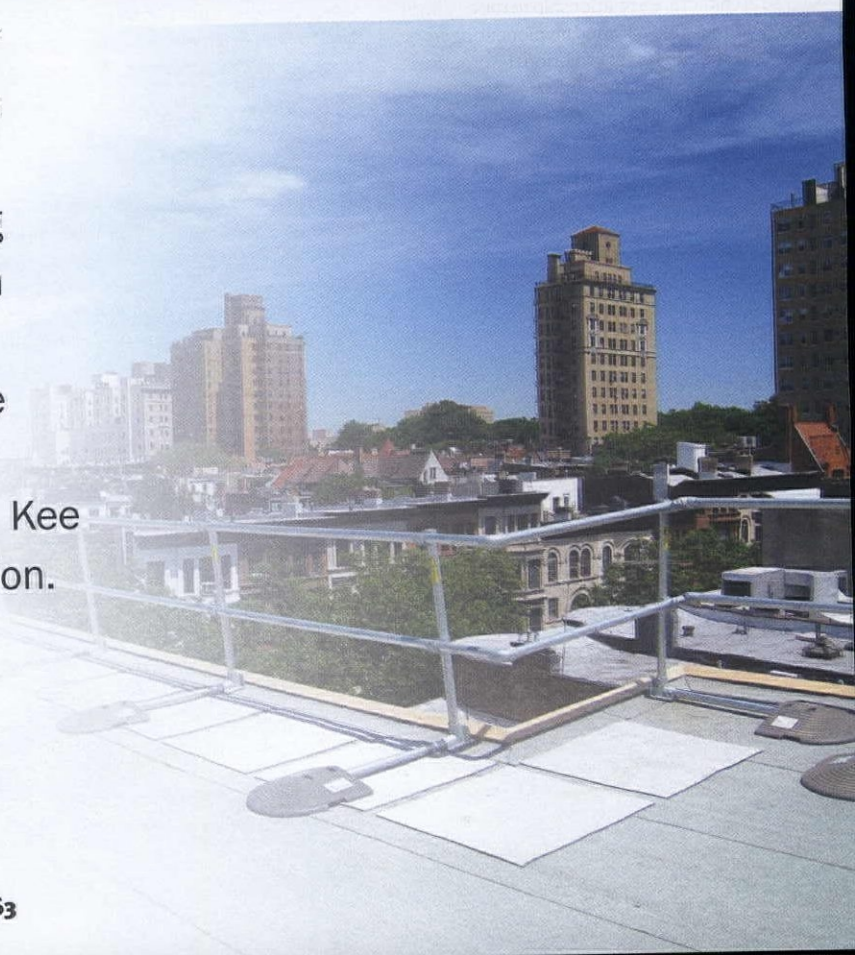
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NEW AND UPCOMING EXHIBITIONS

Young Architects Program 2015
LONG ISLAND CITY, NEW YORK
June 24–September 5, 2015
The annual Young Architects Program—16th edition—once again challenged an invited group of emerging architects to submit design proposals for an installation in the Long Island City, New York, courtyard of MoMA PS1. The proposals had to provide shade, seating, and water for visitors attending PS1's summer programs. *COSMO*, by Andrés Jaque/Office for Political Innovation, was the winning solution for the Long Island City site. The work will incorporate stretched-out plastic mesh and a customized irrigation system to purify water. The four finalists' entries will be exhibited at New York City's Museum of Modern Art: brillhart architecture (Jacob Brillhart), Erin Besler, The Bittertang Farm (Michael Loverich), and Studio Benjamin Dillenburger (Benjamin Dillenburger and Michael Hansmeyer). For more information, visit *moma.org*.

Provocations: The Architecture and Design of Heatherwick Studio
NEW YORK CITY
June 24–November 1, 2015
Provocations, at the Cooper Hewitt, Smithsonian Design Museum, features the imaginative work of British designer Thomas Heatherwick, whose namesake London firm is known for unique design concepts ranging from products to large-scale structures. A selection of Heatherwick Studio's projects will be on display: prototypes, large-scale models, objects, photographs, and film included. All show how the firm blends innovative technology, new materials, and novel engineering to unusual—often sculptural—effect. For more information, visit *cooperhewitt.org*.

Frank Gehry
LOS ANGELES
September 13, 2015–March 20, 2016
The buildings Frank Gehry designs have forever altered architecture's relationship to the city both socially and aesthetically, and his pioneering work in digital technologies set in motion the practices the construction industry employs today. This exhibition at Los Angeles County Museum of Art provides a comprehensive overview of the man's extraordinary body of work, beginning in the early 1960s (the architect established his firm in Los Angeles in 1962) and running to the present, illuminating the evolution of Gehry's thinking through 65 models. Two hundred drawings—many never seen publicly—will also be on view. For more information, visit *lacma.org*.

David Adjaye: Architecture for Social Change
CHICAGO
September 19, 2015–January 3, 2016
With more than 50 built projects around the world, David Adjaye has already established himself as a major international figure in architecture and design. The Art Institute of Chicago is holding his first-ever retrospective, with work spanning furniture, housing, public buildings, and master plans. Drawings, sketches, models, and building mock-ups will be on exhibit. The show will also immerse visitors in the architect's distinct approach and visual language through a dynamic installation conceived by Adjaye Associates itself. For more information, visit *artic.edu*.

ONGOING EXHIBITIONS

A Home for Art: Edward Larrabee Barnes and the KMA
KATONAH, NEW YORK
Through June 28, 2015
The Katonah Museum of Art will celebrate the silver anniversary of its landmark Edward Larrabee Barnes building with an exhibition exploring the work the legendary architect created in Westchester County, New York, where he made his home. Unlike many large projects Barnes undertook, the Katonah Museum was as much a form of personal expression as it was architectural design, with its informal feel of a domestic space for art. The exhibition presents an overview of Barnes's career and seminal role in modern architecture, with a close look at the many Westchester homes he designed. For more information, visit *katonahmuseum.org*.

Book for Architects
NEW YORK CITY
Through July 5, 2015
Wolfgang Tillmans's installation at the Metropolitan Museum of Art, *Book for Architects*, is on view for the first time since its debut at the 2014 Venice Architecture Biennale. Tillmans photographed buildings in 37 countries on five continents over a 10-year period, and 450 of them are presented in a site-specific two-channel video installation that is projected onto perpendicular walls. The display expresses the complexity, irrationality, madness, and beauty of the quotidian built environment. For more information, visit *metmuseum.org*.

Modeling the Synagogue—From Dura to Touro
NEW YORK CITY
Through July 5, 2015
Yeshiva University Museum's newest major exhibition features a collection of small wonders: 10 remarkably detailed and accurate architectural models of some of history's most significant synagogues. The maquettes reflect the geographic and cultural breadth of Jewish culture across the centuries, from Dura-Europos in third-century Syria to Tempio Israelitico in 19th-century Florence. For more information, visit *yumuseum.org*.

Chatter: Architecture Talks Back
CHICAGO
Through July 12, 2015
Architecture is a perpetual conversation between the present and the past, with the recognition that the future is listening. So what happens when this exchange intersects with technology-driven modes of communication like texting, Twitter, and Instagram? For *Chatter*, the Art Institute of Chicago looks at how five emerging architects—Bureau Spectacular, Erin Besler, Fake Industries Architectural Agonism, Formlessfinder, and John Szot Studio—approach dialogue. Iker Gil, director of the design publication *Mas Context*, conceived a special installation for the exhibition to explore the myriad ways in which architecture is conveyed. For more information, visit *artic.edu*.

Everything Is Design: The Work of Paul Rand
NEW YORK CITY
Through July 19, 2015
The Museum of the City of New York showcases the monumental career of Paul Rand, sometimes referred to the Picasso of graphic design. The exhibition features 150 pieces of Rand's work, among them pioneering corporate communications and rebranding campaigns for IBM, along with groundbreaking logos for ABC, UPS, Westinghouse, Morningstar, and Steve Job's NeXT project. For more information, visit *mcny.org*.

Lina Bo Bardi: Together
CHICAGO
Through July 25, 2015
The Graham Foundation is pleased to announce the first U.S. presentation of *Lina Bo Bardi: Together*, a tribute to the work and legacy of 20th-century, Italian-born Brazilian architect Lina Bo Bardi. The exhibition—featuring new works by artist Madelon Vriesendorp, filmmaker Tapio Snellman, and photographer Ioana Marinescu—aims to inspire new conversations around her influential work. It brings the experience of Bo Bardi's buildings to life and illuminates an inclusive approach to design that eschewed aesthetic and social hierarchies to create a genuine Brazilian experience. For more information, visit *grahamfoundation.org*.

Design for Healthy Living
ATLANTA
Through August 9, 2015
The design of environments in which humans live, work, and play greatly affects their health and well-being. Architects, interior designers, and urban planners are exploring active design: an approach to the development of buildings, streets, and neighborhoods that makes daily physical activity and healthy foods more accessible and inviting. Held at the Museum of Design Atlanta, *Design for Healthy Living* will explore the specific active design strategies employed to promote physical activity and healthy living. The exhibition will highlight these strategies via case studies, videos, and models. For more information, visit *museumofdesign.org*.

Sketch to Structure
PITTSBURGH
Through August 17, 2015
This Carnegie Museum of Art exhibition reveals how buildings take shape, laying out the architectural design process via sketches, plans, blueprints, renderings, and models from the Heinz Architectural Center collection. Divided into four sections—Concept, Collaboration, Communication, and Case Studies—*Sketch to Structure* demonstrates that from initial concept to client presentation, the path is not at all a straightforward one. For more information, visit *cmoa.org*.

Folly 2015: Torqueing Spheres
LONG ISLAND CITY, NEW YORK
Through August 30, 2015
The Architectural League of New York and the Socrates Sculpture Park in Long Island City present the winning proposal for the 2015 Folly Program, an annual juried competition targeting early-career architects and designers. *Torqueing Spheres*, by Philadelphia- and Cambridge, Massachusetts–based firm IK Studio, will transform a series of intertwining sculpted forms into a meandering folly. Its deep self-supporting chambers create opportunities for both individual reflection and a collective experience. For more information, visit *archleague.org*.

Saving Place: 50 Years of New York City Landmarks
NEW YORK CITY
Through September 13, 2015
In this exhibition, the Museum of the City of New York explores the development of the city's transformative landmark-preservation movement, which was galvanized by large historic losses in the early 1960s—most notably, the 1963 demolition of Pennsylvania Station. Through original documents, drawings, paintings, photographs, and building pieces, the story unfolds of how the effort to save historic architectural treasures became the powerful engine of growth and success it is today. For more information, visit *mcny.org*.

Pathmakers: Women in Art, Craft, and Design, Midcentury and Today
NEW YORK CITY
Through September 27, 2015
The exhibition at the Museum of Arts & Design considers the significant contributions women made to modernism in postwar visual culture. While men dominated painting, sculpture, and architecture in the 1950s and '60s, women exerted great influence in such media as textiles, ceramics, and metals. *Pathmakers* features more than 100 of their works, focusing on a core cadre of women like Ruth Asawa, Edith Heath, Sheila Hicks, Karen Karnes, Dorothy Liebes, Alice Kagawa Parrott, Toshiko Takaezu, Lenore Tawney, and Eva Zeisel. For more information, visit *madmuseum.org*.

Martin Beck: Program
CAMBRIDGE, MASSACHUSETTS
Through October 2016
Martin Beck inaugurates a new initiative at the Carpenter Center for the Visual Arts at Harvard University called Institution (Building), a biennial invitation to artists to consider the institutional behaviors and practices of CCVA and Harvard. Beck's exhibition, *Program*, will take shape through a series of interventions, installations, events, and publications drawing upon the exhibition histories and academic pursuits of the center itself and the university's Department of Visual and Environmental Studies. For more information, visit *ccva.fas.harvard.edu*.

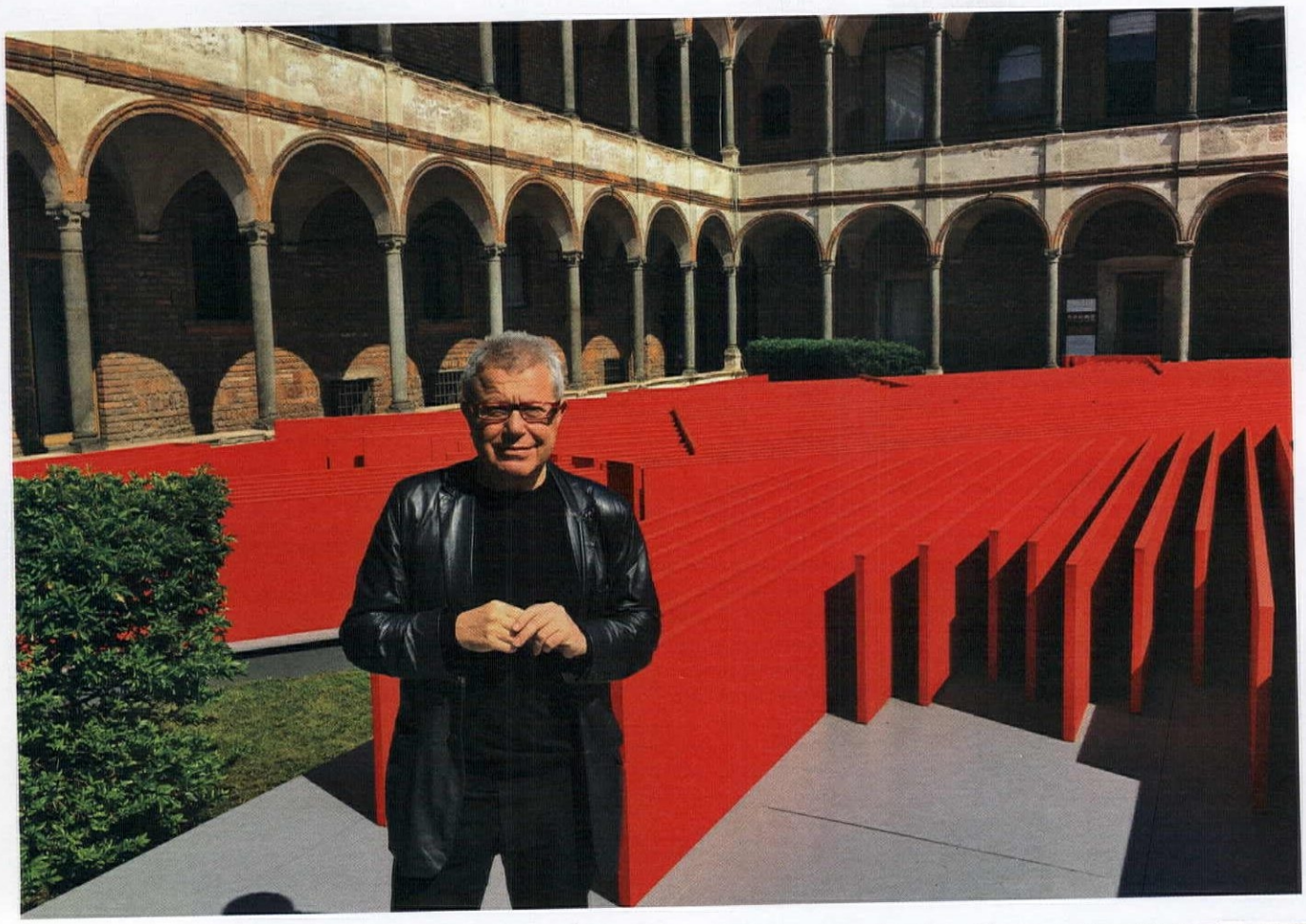
In-Depth & Children's Tours of the Glass House
NEW CANAAN, CONNECTICUT
Through November 30, 2015
On this comprehensive tour of Philip Johnson's Glass House, visitors enjoy unparalleled access to the 49-acre New Canaan, Connecticut, site over the course of three hours. In addition, the Club Glass House After School Tour, held on select Monday afternoons, will introduce sixth to eighth graders to architecture, contemporary art, and craftsmanship through the lens of the Glass House. For more information, visit *theglasshouse.org*.

FESTIVAL

DesignPhiladelphia Festival
PHILADELPHIA
October 8–18, 2015
The annual program showcases the work of more than 400 practicing architects, designers, and creative professionals to demonstrate Philadelphia's reemergence as a 21st-century city shaped by design, technology, and collaborative business practices. The Philadelphia Center for Architecture will host talks, panel discussions, exhibitions, tours, workshops, and public events with the participation of schools, city agencies, retailers, and other groups from across the city. For more information, visit *philadelphiacfa.org*.

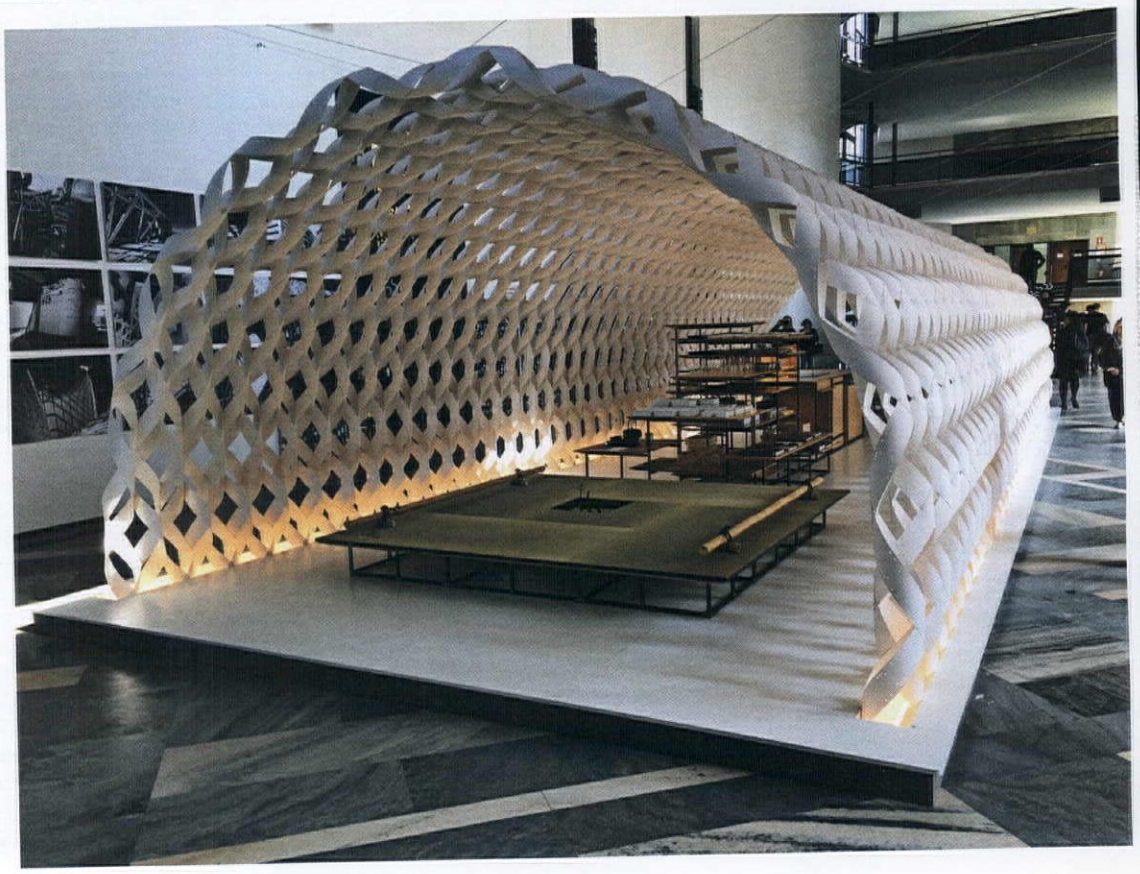
Salone del Mobile 2015

Architects and manufacturers take inspiration from the past at Milan's annual furniture fair. BY JOSEPHINE MINUTILLO





MASTER WORKS Daniel Libeskind in front of his installation at the University of Milan (left). Kengo Kuma (below) beside his "cocoon" for Japanese kitchen manufacturer Kitchenhouse. Based on the *irori*, a traditional Japanese sunken hearth, Kuma's installation features a fire pit beside a cooking and dining area (bottom).



WITH MILAN'S RICH HISTORY in architecture, art, and design, it is inevitable that its illustrious past will be drawn on by the annual Salone del Mobile. This year in particular, despite Milan also serving as host of the futuristic Expo 2015, the past took center stage at the furniture fair, with old palazzi and churches as backdrops for the most interesting exhibits, and reissues of classic designs stealing the spotlight from new product introductions, which were fewer and less interesting than usual.

The Italian magazine *Interni* typically engages international architects and designers for temporary exhibits that become spaces for experimentation during the Salone. Working off the "Energy for Life" theme of the nearby Expo 2015, this year *Interni* presented Energy for Creativity at the University of Milan. Within the many courtyards of the sprawling university complex, which was built (starting in 1456) as a hospital, were large-scale installations by such luminaries as Daniel Libeskind, Alessandro Mendini, and Philippe Starck.



Libeskind, who has a large office in Milan, is a regular participant in the Salone. "This week in Milan is a chance to look at architecture and design in a free way," he says. "No city in the world has this type of event that's open to the public." His installation, a celebration of color and straight lines, was set within what's known as the Pharmacy Courtyard. The low, crisscrossing metal panels were painted in a red the architect developed for Italian paint manufacturer Oikos. According to Libeskind, "We created a palette of 33 colors with a unique, solvent-free, and sustainable chemistry."

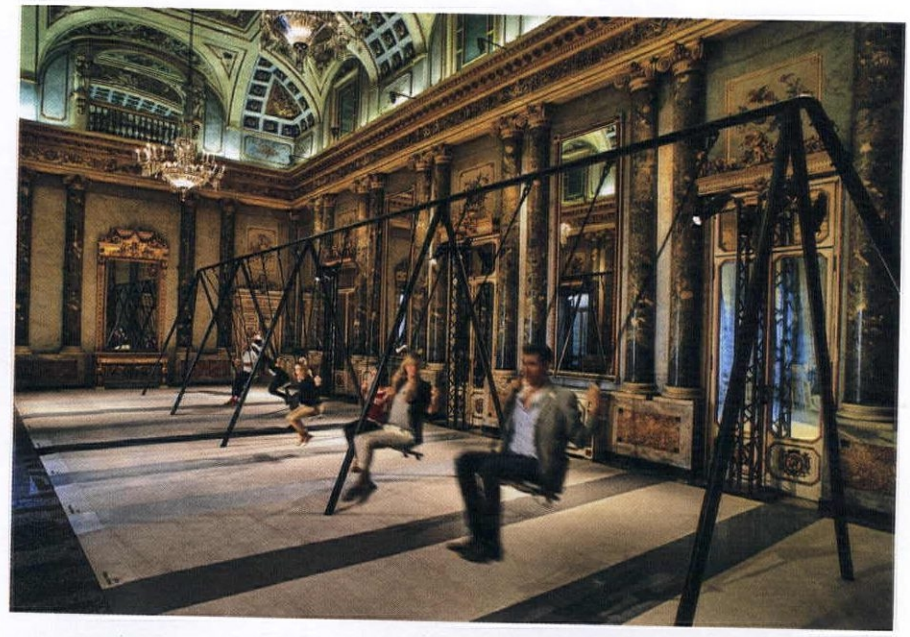
Tokyo and Paris–based architect Kengo Kuma also has an annual presence here. He was invited by Japanese kitchen manufacturer Kitchenhouse, for whom he designed a Shanghai showroom, to create an exhibit outside the university's grand hall. Inspired by the traditional Japanese hearth, or *irori*, Kuma made what he refers to as "fire and cocoon." "The fireplace used to be the center of the home," Kuma explains. "In the 20th century, rooms got divided in an unhealthy way. I want to combine the traditional and the new in an open space."

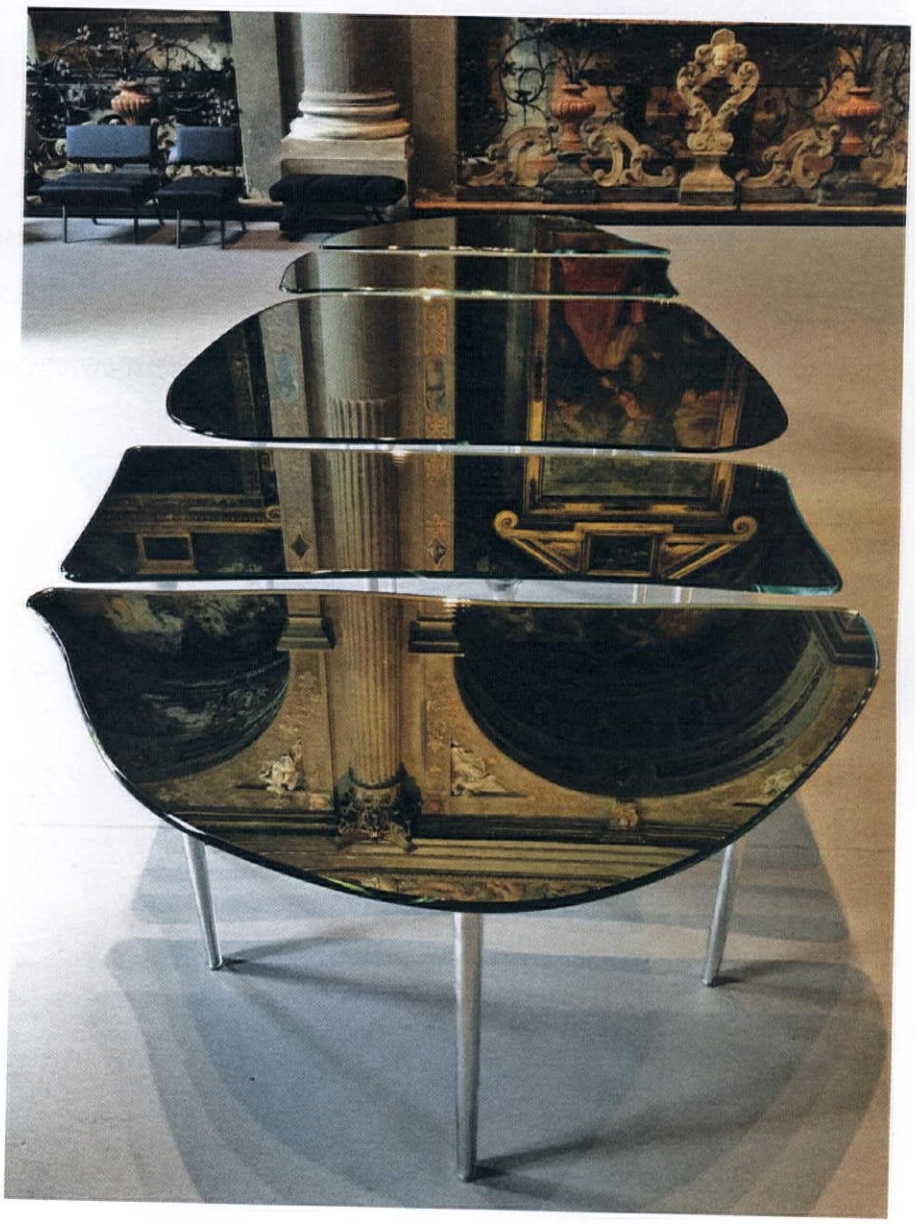
Made from one-millimeter-thick vulcanized paper, Kuma's cocoon of twisting and weaving strips was developed on the computer but built by hand. The long, white cloudlike structure, which supports itself, encases a space where a low platform with a fire pit, a kitchen, and a dining area flow into each other.

Exhibiting for the first time in Milan, New York–based architects Steve Blatz and Antonio Pio Saracino created Black Hole. Composed of steel, glass, and wood (provided by sponsors Marzorati Ronchetti, Vetreria Bazzanese, and Zordan), the small tower is meant to be a "creative balance of chaos and order," according to Blatz. Within the perfectly round form, visitors could recline on the circular wood seating at the base to gaze up through the oculus, composed of irregularly shaped overlapping wood discs.

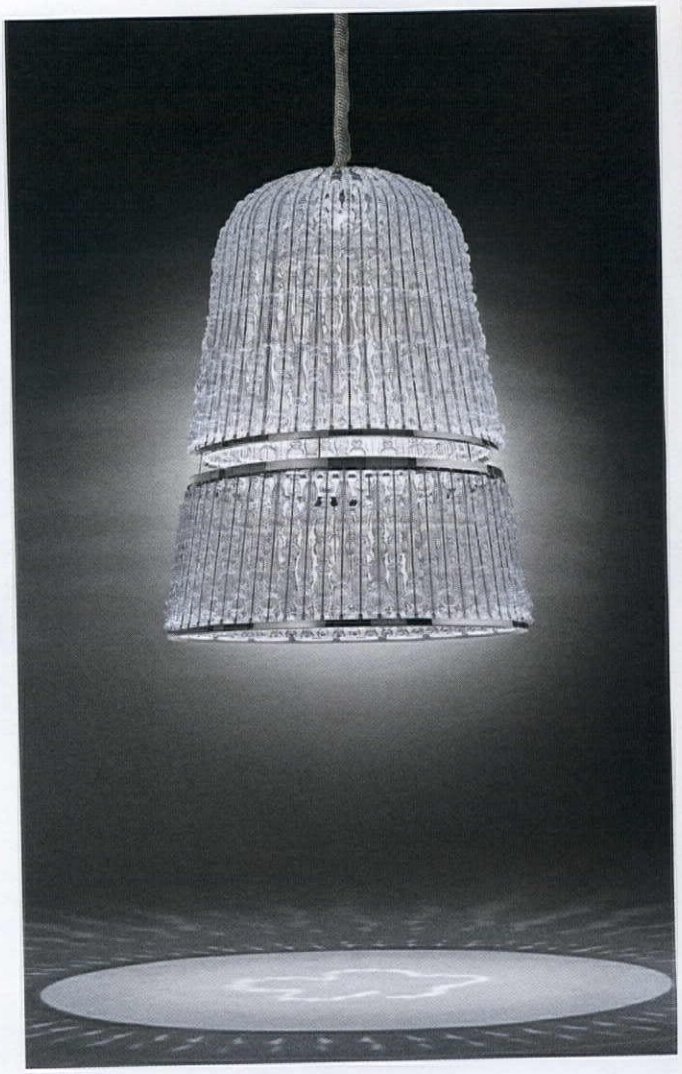
Not far from the university complex, surfaces manufacturer Caesarstone exhibited inside the Neoclassical Palazzo Serbelloni. Its

FAIR PLAY New York–based Steve Blatz and Antonio Pio Saracino designed a small tower in wood, glass, and steel in the main courtyard at the University of Milan (top, left). Visitors enjoy a swing set Philippe Malouin created for Caesarstone in an 18th-century palazzo (top, right). Massimiliano Locatelli's all-glass table for Glas Italia at his firm's office in a deconsecrated church (bottom).









BEST IN SHOW
Kartell turned its showroom into a postmodern extravaganza (left). Architect Marco Piva interpreted the 1,000-year-old history of glassmaking in Venice with a series of LED chandeliers for Italamp called Crowns (right). Molteni&C celebrated its 80th anniversary with the reissue of a Gio Ponti chair (center) and a new table by HOK Product Design (bottom left). Knoll honored Harry Bertoia with a plastic version of his metal side chair (bottom right).







grand hall housed an interactive installation by Canadian-born designer Philippe Malouin, where the flooring and seats of an eight-piece swing set showcased newly launched designs and textures from Caesarstone's collection.

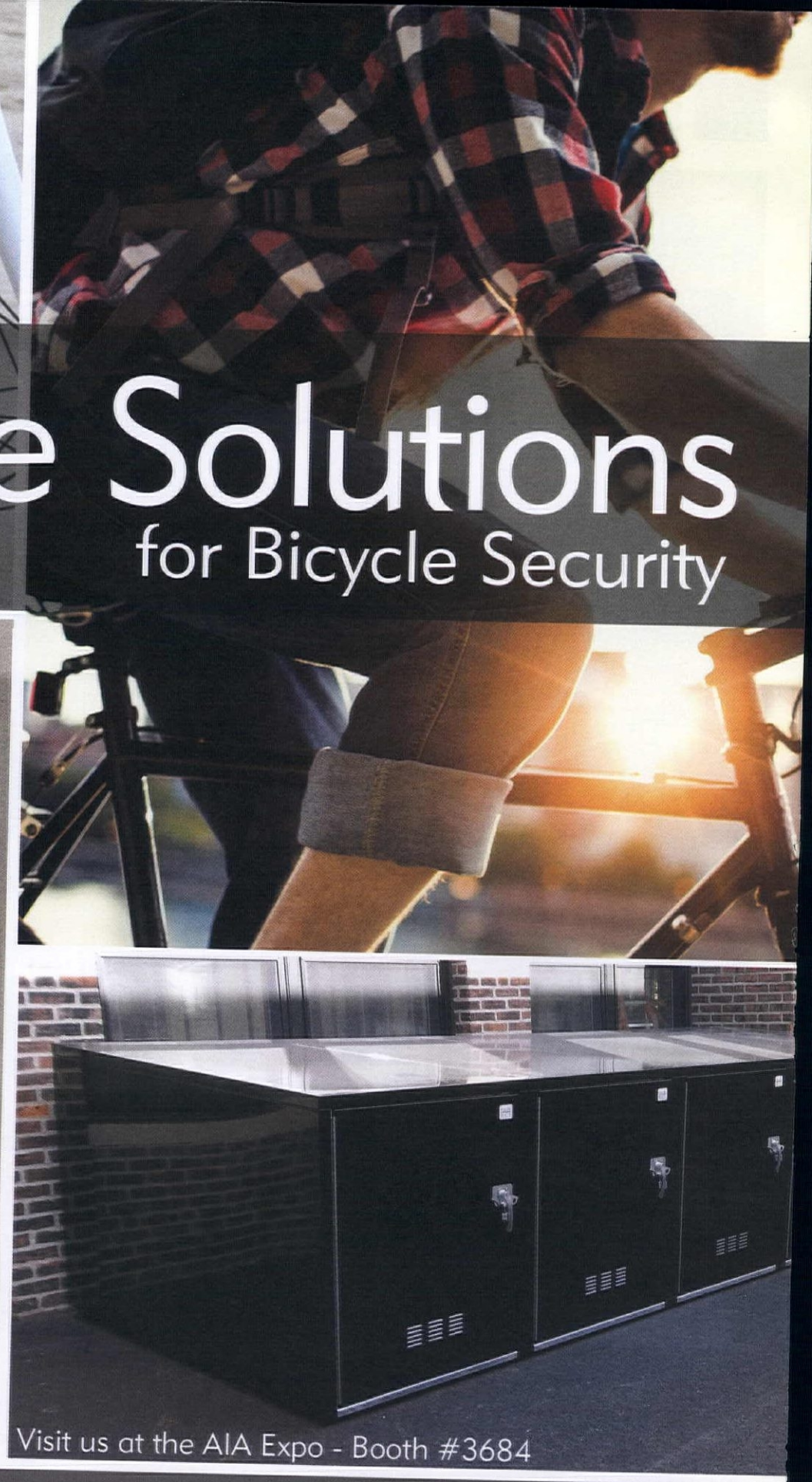
South of the city center, CLS Architetti, led by Massimiliano Locatelli, opened its new office to the public for the week. The unusual workspace, inside the deconsecrated Church of San Paolo Converso, also had on display recent designs by Locatelli, including a table for Glas Italia made entirely of glass, legs and all.

While leading furniture manufacturer Kartell exhibited new products, including, curiously, a fragrance line, at the fairgrounds, it used its flagship showroom in the city to host a tribute to Memphis, the 1980s design group founded by the late Italian architect Ettore Sottsass. A collection of vases, stools, and a lamp designed for the company by Sottsass in 2004—some now being put into production for the first time—were shown within a vibrant display of objects and fabrics typical of Memphis's postmodern aesthetic.

Elsewhere, Veneto-based Italamp showcased new LED chandeliers designed by Marco Piva, called Crowns, using 1,000-year-old methods of Venetian glassmaking. Meanwhile, Molteni&C celebrated its 80th anniversary with new furniture designs by the likes of HOK and Foster + Partners as well as reissues of classic Gio Ponti designs. Knoll, too, honored Harry Bertoia with a new polypropylene version of his iconic metal side chair on the centennial of the designer's birth. ■

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PARTNERS IN DESIGN

BY LISA CALDWELL





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Ingels is the founding partner of BIG (Bjarke Ingels Group), an award-winning architectural practice with offices in New York and Copenhagen. He is known for projects such as the Danish Maritime Museum and New York's W57, currently under construction.

big.dk



ADAM HORWITZ

Horwitz is the general manager of Kallista, a designer-based, full-suite collections plumbing manufacturer for the luxury market and a Kohler Co. brand.

kohler.com

LAUNCHED IN MARCH, the Taper by BIG collection of bathroom fittings and accessories marks Bjarke Ingels's debut collaboration with plumbing manufacturer Kallista. The Danish architect looked to the twisting design of his 59-story Vancouver House project for aesthetic inspiration in creating the line but also focused on the assembly of the product. "Most faucet designs have many components that come together; they look like complicated pieces of machinery," he observes. "What we tried to do was make the design of the faucet the most blatant translation of delivering water from the pipe to the hand or body of the user."

Kallista's general manager, Adam Horwitz, says, "Bjarke helped us deliver something quite remarkable: a one-piece spout. The entire faucet is three pieces—that's all you see. There's no base, no bonnet, no escutcheon, and no seams." The resulting designs feature clean lines, forward-leaning profiles, 90-degree bends, and a spout tip that is flush with the faucet.

Available in three standard and nine special-order finishes, the collection offers sink and tub fittings in both wall- and deck-mount models, a showerhead, thermostatic trim, towel bars, a robe hook, and a magnetic-arm toilet-paper holder. The basin sets, which feature a 1.5 gallons-per-minute laminar flow aerator, meet the Environmental Protection Agency's flow, force, and coverage mandates for WaterSense listing. (SNAP #34)



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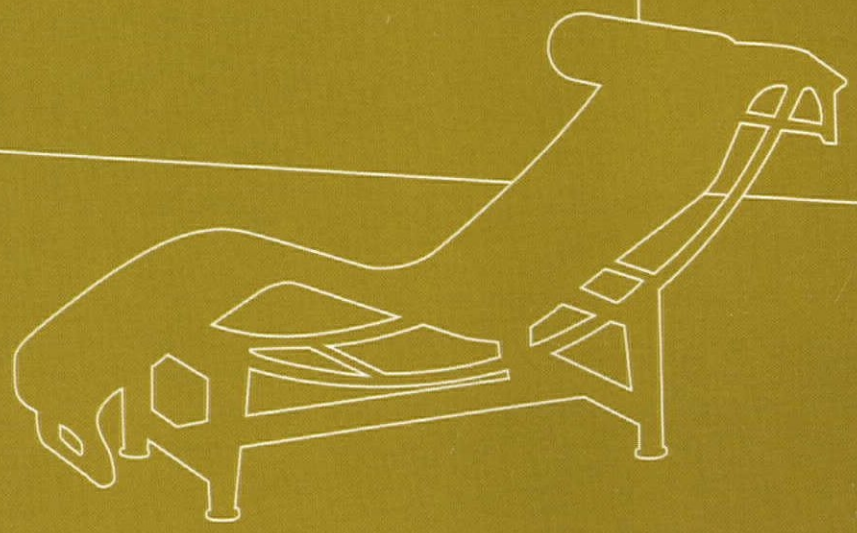


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